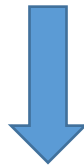


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- Vendor: Microsoft
- Exam Code: 70-487
- Exam Name: Developing Microsoft Azure and Web Services

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QUESTION 1

You are building an ADO.NET Entity Framework application. You need to validate the conceptual schema definition language (CSDL), store schema definition language (SSDL), and mapping specification language (MSL) files. Which Entity Data Model tool can you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. EDM Generator (EdmGen.exe)
- B. ADO.NET Entity Data Model Designer
- C. Entity Data Model Wizard
- D. Update Model Wizard

Answer: AB

Explanation:

EdmGen.exe

<http://msdn.microsoft.com/en-us/library/cc716721.aspx>

ADO.Net Entity Data Model Designer

[http://msdn.microsoft.com/enus/library/vstudio/cc716685\(v=vs.100\).aspx](http://msdn.microsoft.com/enus/library/vstudio/cc716685(v=vs.100).aspx)

The Entity Data Model wizard creates the .edmx files. It does not validate the CSDL, SSDL or MSL files. The Update Model wizard updates the .edmx file after changes have been made. It does not validate the CSDL, SSDL or MSL files.

QUESTION 2

Drag and Drop Question

You are developing an ASP.NET Web API action method. The action method must return the following JSON in the message body.

```
{ "Name": "Fabrikam", "Vendor Id": 9823, "Items": ["Apples", "Oranges"] }
```

You need to return an anonymous object that is serialized to JSON. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

The screenshot shows a drag-and-drop interface for an ASP.NET Web API action method. On the left, there is a list of code segments: "Fabrikam", VendorNumber = 9823,; "Fabrikam", VendorNumber = "9823",; new List<string> { "Apples", "Oranges" }; new List<string> { "Apples, Oranges" }; return new List<string>; and return new;. On the right, the answer area shows the following code structure: public object Get() { [] { Name = []; Items = []; } };

Answer:

The screenshot shows the same drag-and-drop interface as before, but with the correct code segments placed in the answer area. The segments are: "Fabrikam", VendorNumber = 9823,; "Fabrikam", VendorNumber = "9823",; new List<string> { "Apples", "Oranges" }; new List<string> { "Apples, Oranges" }; return new List<string>; and return new;. The answer area shows the following code structure: public object Get() { [] return new { Name = []; Items = []; } };

QUESTION 3

You are designing an ASP.NET Web API application. You need to select an HTTP verb to allow blog administrators to moderate a comment. Which HTTP verb should you use?

- A. GET
- B. POST
- C. DELETE
- D. PUT

Answer: D

QUESTION 4

Drag and Drop Question

You are developing an ASP.NET Web API application that will be consumed by a web browser via a composite application that is served from another web domain. You need to configure the Web API. What should you do? (To answer, drag the appropriate XML elements to the correct location or locations in the answer area. Each XML element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Available Elements | Answer Area |
|--------------------------------|---|
| Access-Control-Allow-Origin | <httpProtocol> |
| Access-Control-Allow-Headers | <customHeaders> |
| Access-Control-Allow-Methods | <add name="Access-Control-Allow-Origin" |
| Access-Control-Request-Method | value=" " /> |
| Access-Control-Request-Headers | <add name=" " " |
| * | value="PUT, DELETE"/> |
| POST, GET | <add name=" " " |
| Content-Type | value=" " /> |
| | </customHeaders> |
| | </httpProtocol> |

Answer:

| Available Elements | Answer Area |
|--------------------------------|--|
| Access-Control-Allow-Origin | <httpProtocol> |
| Access-Control-Allow-Headers | <customHeaders> |
| Access-Control-Allow-Methods | <add name="Access-Control-Allow-Origin" |
| Access-Control-Request-Method | value=" * " /> |
| Access-Control-Request-Headers | <add name=" Access-Control-Allow-Methods " " |
| * | value="PUT, DELETE"/> |
| POST, GET | <add name=" Access-Control-Allow-Headers " " |
| Content-Type | value=" Content-Type " /> |
| | </customHeaders> |
| | </httpProtocol> |

QUESTION 5

You are planning to migrate websites from IIS 6 to IIS 7.5. You do not have access to SSH or a VPN. You need to select a deployment tool to securely migrate the websites. Which tool should you use?

- A. RoboCopy
- B. Web Deploy
- C. Microsoft command-line FTP

D. xCopy

Answer: B

QUESTION 6

Drag and Drop Question

You are developing an ASP.NET MVC Web API application. The method names of the Web API must match naming guidelines for RESTful services. You need to create methods to support standard insert, select, update, and delete operations in an HTTP service. What should you do? (To answer, drag the appropriate HTTP methods to the correct row in the table in the answer area. Each HTTP method may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area

| Action | HTTP method | Relative URI |
|----------------------------------|--|----------------------------------|
| Retrieve a list of all customers | <div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div> | /api/customers |
| Retrieve a customer by id | <div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div> | /api/customers/id |
| Retrieve a customer by category | <div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div> | /api/customer/?category=category |
| Create a new customer | <div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div> | /api/customers |
| Update a customer | <div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div> | /api/customers/id |
| Remove a customer | <div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div> | /api/customers/id |

GET

POST

INSERT

DELETE

CREATE

READ

UPDATE

ADD

PUT/POST

Answer:

| Answer Area | | |
|----------------------------------|-------------|--|
| Action | HTTP method | Relative URI |
| Retrieve a list of all customers | GET | /api/customers |
| Retrieve a customer by id | GET | /api/customers/ <i>id</i> |
| Retrieve a customer by category | GET | /api/customer/?category= <i>category</i> |
| Create a new customer | POST | /api/customers |
| Update a customer | PUT/POST | /api/customers/ <i>id</i> |
| Remove a customer | DELETE | /api/customers/ <i>id</i> |

QUESTION 7

You are developing an ASP.NET MVC application. Applications can be deployed to remote servers only by administrators who have elevated privileges. The administrators do not have access to Visual Studio 2012. You need to select a deployment tool to deploy the application to remote servers for testing. Which tool should you use?

- A. Copy Web Site Tool
- B. One-Click Publish
- C. Publish Web Site Tool
- D. Web Deployment Package

Answer: D

QUESTION 8

You are developing an ASP.NET MVC web application that contains the following HTML.

```
<table id= "customer" ></table>
```

You also have an ASP.NET Web API application that contains a call for retrieving customers. You must send and retrieve the data in the most compact format possible. You need to update the HTML for the customers table to contain data from the Web API application. Which script segment should you use?

☐ A.

```
<script>
$(function () {
    var $customers = $("#customers");
    $.ajax({
        url: "api/customers",
        dataType: "json",
        success: function (data) {
            ...
        }
    });
});
</script>
```

☐ B.

```
<script>
$(function () {
    var $customers = $("#customers");
    $.xml({
        url: "api/customers",
        dataType: "ajax",
        success: function (data) {
            ...
        }
    });
});
</script>
```

☐ C.

```
<script>
$(function () {
    var $customers = $("#customers");
    $.json({
        url: "api/customers",
        dataType: "ajax",
        success: function (data) {
            ...
        }
    });
});
</script>
```

☐ D.

```
<script>
$(function () {
    var $customers = $("#customers");
    $.ajax({
        url: "api/customers",
        dataType: "xml",
        success: function (data) {
            ...
        }
    });
});
</script>
```


- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

QUESTION 9

Drag and Drop Question

You are developing an ASP.NET MVC Web API image management application. The application must meet the following requirements:

- It must send or receive image data without the use of a buffer.
- It must allow up to 4 MB of image data to be received.
- It must allow up to 3 MB of image data to be sent.

You need to complete the code to meet the requirements. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

config

server

MaxBufferSize

MaxReceivedMessageSize

MaxConcurrentRequests

Streamed

Buffered

Answer Area

```
class Program
{
    private static string _baseAddress = "http://localhost:8080/";

    static void Main(string[] args)
    {
        var config = new HttpSelfHostConfiguration(_baseAddress);
        config.Routes.MapHttpRoute(
            name: "DefaultApi",
            routeTemplate: "api/{controller}/{id}",
            defaults: new { id = RouteParameter.Optional }
        );

        _____ = 1024 * 1024 * 3;

        _____ = 1024 * 1024 * 4;

        _____.TransferMode =

        TransferMode. _____ ;

        var server = new HttpSelfHostServer(config);
        server.OpenAsync().Wait();
    }
}
```

Answer:

config

server

MaxBufferSize

MaxReceivedMessageSize

MaxConcurrentRequests

Streamed

Buffered

Answer Area

```
class Program
{
    private static string _baseAddress = "http://localhost:8080/";

    static void Main(string[] args)
    {
        var config = new HttpSelfHostConfiguration(_baseAddress);
        config.Routes.MapHttpRoute(
            name: "DefaultApi",
            routeTemplate: "api/{controller}/{id}",
            defaults: new { id = RouteParameter.Optional }
        );

        config.MaxBufferSize = 1024 * 1024 * 3;
        config.MaxReceivedMessageSize = 1024 * 1024 * 4;
        config.TransferMode =
            TransferMode.Streamed ;

        var server = new HttpSelfHostServer(config);
        server.OpenAsync().Wait();
    }
}
```

QUESTION 10

You are preparing to develop a set of libraries for a company. The libraries must be shared across the company. You need to create a remote NuGet feed that exposes the libraries. What should you do? (Each answer presents part of the solution. Choose all that apply.)

- A. Install the NuGet.Feed Package.
- B. Install the NuGet.Server Package.
- C. Configure the Packages folder located in the system.webserver section of the web application's Web.config.
- D. Create a new Empty Web Site in Visual Studio 2012.
- E. Configure the Packages folder located in the appSettings section of the web application's Web.config.
- F. Add packages to the Packages folder.
- G. Create a new Empty Web Application in Visual Studio 2012.

Answer: BEFG

QUESTION 11

You develop an ASP.NET MVC application that is secured by using SSL. You are ready to deploy the application to production. The deployment package must include the installation of the SSL certificate. You need to configure the deployment package to meet the requirement. What should you do?

- A. Create a web publish pipeline target file with a custom web deploy target.
- B. In the Package/Publish settings of the project, select the All Files in this project option.
- C. Extend the CopyAllFilesToSingleFolder target in the project file.
- D. In the Build Events settings of the project, configure a pre-build event to include the SSL certificate.

Answer: A

QUESTION 12

You are developing a library to support multiple ASP.NET MVC web applications on a shared

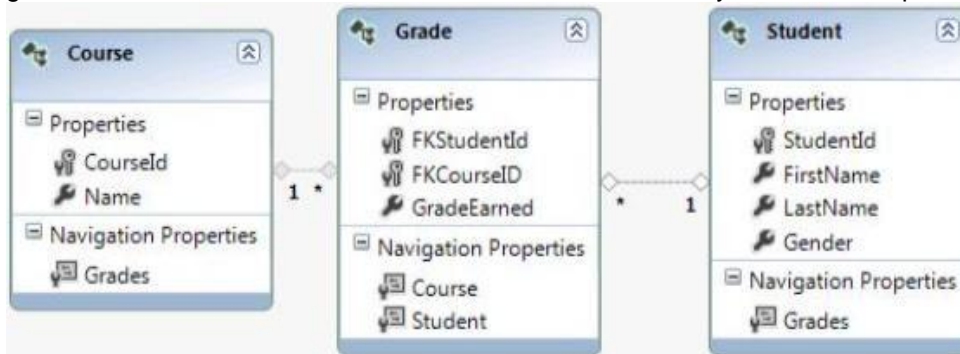
server. The library provides implementations of security algorithms. If a problem with any of the security algorithms is discovered, a new version of the library must be created and deployed. Application downtime during the update must be minimized. You need to ensure that the new version of the library will be used by all applications as soon as possible. What should you do?

- A. Build the web applications and include the security assembly as an embedded resource.
When an update is needed, copy the new assembly to the bin directory for the application.
- B. Sign all assemblies in each application with the same key used to sign the security assembly.
When an update is needed, create a new key pair and re-sign all assemblies.
- C. Build the security assembly as a netmodule in a shared location.
Use the assembly linker to merge the netmodule into the assemblies for the application.
When an update is needed, update the netmodule in the shared location.
- D. Install the security assembly in the Global Assembly Cache (GAC).
When an update is needed, update the assembly in the GAC.

Answer: D

QUESTION 13

You are developing an application in Visual Studio 2012 to display student information. The application contains the following Entity Framework model. The application contains a WCF data service named `DirectoryService.svc`. You need to create a query expression to display all of the grades for students whose first name is "John". How should you build the expression?



- A. `http://localhost:54946/DirectoryService.svc/Students?$filter=FirstName eq 'John' & $expand=Grades`
- B. `http://localhost:54946/DirectoryService.svc/Students?$filter=FirstName eq 'John'/Grades`
- C. `http://localhost:54946/DirectoryService.svc/Students?$filter=FirstName = 'John' & $expand=Grades`
- D. `http://localhost:54946/DirectoryService.svc/Grades/Students?$filter=FirstName eq 'John'`

Answer: A

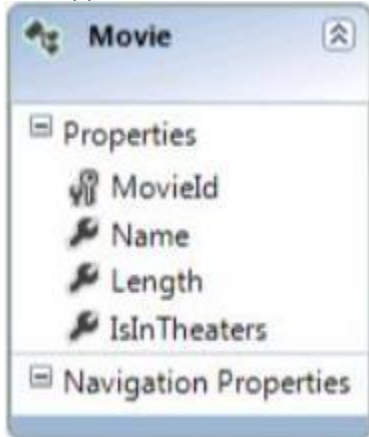
QUESTION 14

Drag and Drop Question

You are developing a WCF Data Services service in Visual Studio 2012 to display movie information from a SQL Server database that changes every 24 hours. The service is defined in the following class.

```
public class MovieService : DataService<MovieEntities>
{
    public static void InitializeService(DataServiceConfiguration config)
    {
        config.SetEntitySetAccessRule("Movies", EntitySetRights.AllRead);
        config.DataServiceBehavior.MaxProtocolVersion = DataServiceProtocolVersion.V2;
    }
}
```

The application contains the following Entity Framework model.



The service must only return data for movies that are currently in theaters. You need to add a method to the MovieService class to filter the data. How should you build the method? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

ChangeInterceptor

QueryInterceptor

"Movies"

"MovieEntities"

Expression

Filter

Answer Area

```
public class MovieService : DataService<MovieEntities>
{
    public static void InitializeService(DataServiceConfiguration config)
    {
        config.SetEntitySetAccessRule("Movies", EntitySetRights.AllRead);
        config.DataServiceBehavior.MaxProtocolVersion =
            DataServiceProtocolVersion.V2;
    }

    [ ] ( )
    public <Func<Movie, bool>> ApplyTheaterFilter()
    {
        return movie => movie.IsInTheaters == true;
    }
}
```

Answer:

ChangeInterceptor

QueryInterceptor

"Movies"

"MovieEntities"

Expression

Filter

Answer Area

```
public class MovieService : DataService<MovieEntities>
{
    public static void InitializeService(DataServiceConfiguration config)
    {
        config.SetEntitySetAccessRule("Movies", EntitySetRights.AllRead);
        config.DataServiceBehavior.MaxProtocolVersion =
            DataServiceProtocolVersion.V2;
    }

    [QueryInterceptor] ( "Movies" ) ]
    public Expression <Func<Movie, bool>> ApplyTheaterFilter()
    {
        return movie => movie.IsInTheaters == true;
    }
}
```

QUESTION 15

You are developing an ASP.NET MVC application that reads and writes data from a SQL Server database. You need to prevent the application from reading data that is locked by other transactions. You also need to prevent exclusive range locks. Which isolation level should you use?

- A. ReadCommitted
- B. Serializable
- C. Repeatable
- D. ReadUncommitted

Answer: A

Explanation:

SQL Server Isolation Levels

[http://msdn.microsoft.com/en-us/library/ms189122\(v=sql.105\).aspx](http://msdn.microsoft.com/en-us/library/ms189122(v=sql.105).aspx)

<http://msdn.microsoft.com/en-us/library/ms173763.aspx>

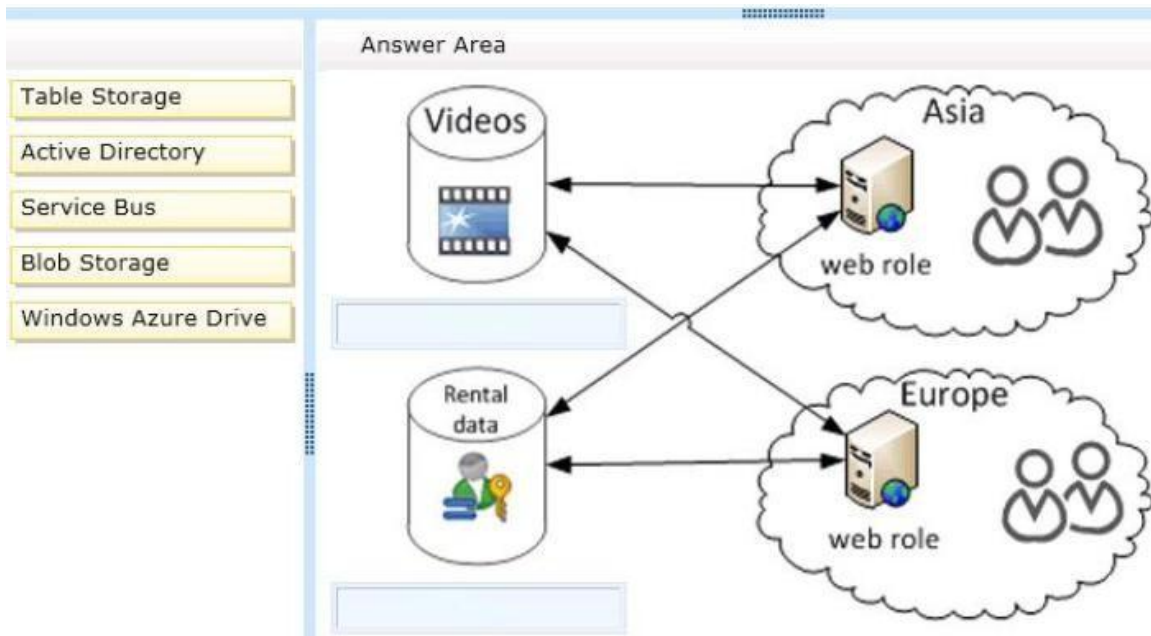
QUESTION 16

Drag and Drop Question

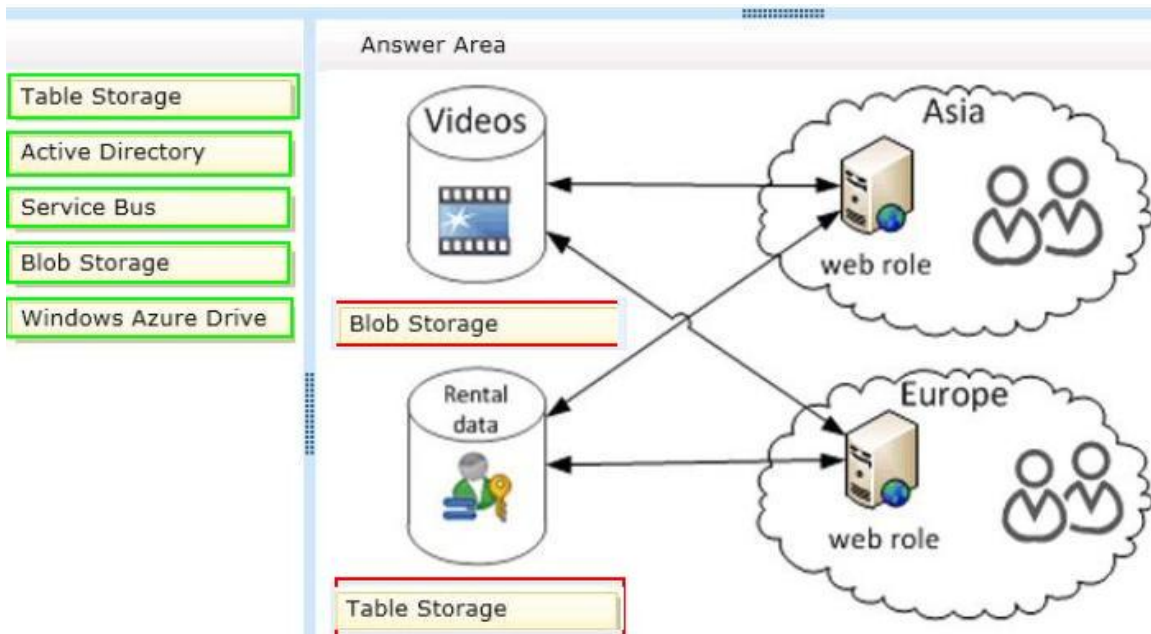
You are developing a Windows Azure based web application that provides users the ability to rent training videos. The application is deployed to hosted services in Asia and Europe. The web application must meet the following requirements:

- Video files are large and must be able to be streamed.
- Streaming videos requires low latency network connections.
- Rental data contains structured information about the user and the video.
- Rental permissions are checked every five seconds during video playback.

You need to recommend storage architecture for the application. What should you do? (To answer, drag the appropriate technologies to the correct location or locations in the answer area. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)



Answer:



QUESTION 17

Drag and Drop Question

You are developing a self-hosted WCF service that returns stock market information. The service must be discoverable by any client application. You need to build the service host. How should you build the host? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Answer Area | |
|---|--|
| <div>UdpDiscoveryEndpoint</div> <div>DiscoveryEndpoint</div> <div>ServiceBehaviorAttribute</div> <div>ServiceDiscoveryBehavior</div> <div>ServiceHost</div> | <pre>static void Main(string[] args) { Uri StockURI = new Uri("http://localhost:8733/StockTicker"); var mytype = typeof(StockTickerService); using ([] host = new [] (mytype, StockURI)) { host.AddServiceEndpoint(typeof(IStockTickerService), new WSHttpBinding(), ""); host.Description.Behaviors.Add(new [] ()); host.AddServiceEndpoint(new [] ()); host.Open(); Console.ReadLine(); host.Close(); } }</pre> |

Answer:

| Answer Area | |
|---|--|
| <div>UdpDiscoveryEndpoint</div> <div>DiscoveryEndpoint</div> <div>ServiceBehaviorAttribute</div> <div>ServiceDiscoveryBehavior</div> <div>ServiceHost</div> | <pre>static void Main(string[] args) { Uri StockURI = new Uri("http://localhost:8733/StockTicker"); var mytype = typeof(StockTickerService); using ([ServiceHost] host = new [ServiceHost] (mytype, StockURI)) { host.AddServiceEndpoint(typeof(IStockTickerService), new WSHttpBinding(), ""); host.Description.Behaviors.Add(new [ServiceDiscoveryBehavior] ()); host.AddServiceEndpoint(new [UdpDiscoveryEndpoint] ()); host.Open(); Console.ReadLine(); host.Close(); } }</pre> |

QUESTION 18

You are developing a WCF service that compares several data sources. The service takes a long time to complete. The service must meet the following requirements:

- The client must be able to continue processing while the service is running.
- The service must initiate communication with the client application when processing is complete.

You need to choose a message pattern to meet the requirements. Which message pattern should you choose?

A. One Way

- B. Streaming
- C. Duplex
- D. Request/Reply

Answer: C

QUESTION 19

You are developing a WCF service. A new service instance must be created for each client session. You need to choose an instancing mode. Which instance mode should you use?

- A. PerCall
- B. Single
- C. Multiple
- D. PerSession
- E. PerRequest

Answer: D

Explanation:

WCF Instancing Modes

<http://msdn.microsoft.com/en-us/library/ms731193.aspx>

QUESTION 20

Drag and Drop Question

You are developing a WCF service. You need to implement transport security by using NTLM authentication and NetTcpBindings. Which configuration values should you use? (To answer, drag the appropriate configuration values to the correct location or locations in the answer area. Each configuration value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

The screenshot shows a WCF configuration editor interface. On the left, there is a list of configuration values that can be dragged into the XML template on the right. The values are:

- binding="netTcpBinding"
- binding="Duplex"
- binding="NtlmTcp"
- mode="netBindingTcp"
- mode="Transport"
- mode="Duplex"
- clientCredentialType="netTcpBinding"
- clientCredentialType="NtlmTcp"
- clientCredentialType="Ntlm"

The XML template on the right is for a `system.serviceModel` configuration, specifically for `protocolMapping` and `bindings`. The template includes the following structure:

```
<system.serviceModel>
  <protocolMapping>
    <add scheme="https" />
  </protocolMapping>
  <bindings>
    <wsHttpBinding>
      <binding>
        <security />
        <transport />
      </binding>
    </wsHttpBinding>
  </bindings>
</system.serviceModel>
```

Answer:

| Available Elements | Answer Area |
|---|---|
| <code>binding="netTcpBinding"</code> | <code><system.serviceModel></code> |
| <code>binding="Duplex"</code> | <code><protocolMapping></code> |
| <code>binding="NtlmTcp"</code> | <code><add scheme="https" binding="netTcpBinding" /></code> |
| <code>mode="netBindingTcp"</code> | <code></protocolMapping></code> |
| <code>mode="Transport"</code> | <code><bindings></code> |
| <code>mode="Duplex"</code> | <code><wsHttpBinding></code> |
| <code>clientCredentialType="netTcpBinding"</code> | <code><binding></code> |
| <code>clientCredentialType="NtlmTcp"</code> | <code><security mode="Transport" ></code> |
| <code>clientCredentialType="Ntlm"</code> | <code><transport clientCredentialType="Ntlm" /></code> |
| | <code></security></code> |
| | <code></binding></code> |
| | <code></wsHttpBinding></code> |
| | <code></bindings></code> |
| | <code></system.serviceModel></code> |

QUESTION 21

Drag and Drop Question

You are developing a WCF service. The service will stream messages to clients on the internal network. You must use Windows Authentication, and all messages must be binary encoded. You need to configure the service. What should you do? (To answer, drag the appropriate elements to the correct location or locations in the answer area. Each element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Available Elements | Answer Area |
|-------------------------------|---|
| <code>namedNetBinding</code> | <code><system.serviceModel></code> |
| <code>netTcpBinding</code> | <code><bindings></code> |
| <code>binHttpsBinding</code> | <code>< [] ></code> |
| <code>httpBasicBinding</code> | <code><binding></code> |
| <code>mode="Ignore"</code> | <code><security [] /></code> |
| <code>mode="Transport"</code> | <code></binding></code> |
| <code>mode="Direct"</code> | <code></ [] ></code> |
| | <code></bindings></code> |
| | <code></system.serviceModel></code> |

Answer:

namedNetBinding

netTcpBinding

binHttpsBinding

httpBasicBinding

mode="Ignore"

mode="Transport"

mode="Direct"

Answer Area

```
<system.serviceModel>
  <bindings>
    <netTcpBinding
      <binding>
        <security mode="Transport" />
      </binding>
    </netTcpBinding>
  </bindings>
</system.serviceModel>
```

QUESTION 22

Drag and Drop Question

You are developing a WCF service. The WCF service requires implementations of the new data contracts to validate against the old schema. You need to develop a new data contract without breaking current functionality. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

[DataContract(Validate = "Profile")]

[DataContract(Identifier = "Profile")]

[DataContract(Name = "Profile")]

[DataContract(TypeID = "Profile")]

[DataContract(ID = "Profile")]

Answer Area

```
public class ProfileV1
{
    [DataMember]
    public string Username;
}

public class ProfileV2
{
    [DataMember]
    public string Username;

    [DataMember]
    public string Email;
}
```

Answer:

The screenshot shows a WCF service configuration interface. On the left, there is a list of five `[DataContract]` attributes, each in a yellow box with a green border:

- `[DataContract(Validate = "Profile")]`
- `[DataContract(Identifier = "Profile")]`
- `[DataContract(Name = "Profile")]`
- `[DataContract(TypeID = "Profile")]`
- `[DataContract(ID = "Profile")]`

On the right, there is an "Answer Area" with a text input field containing `[DataContract(Name = "Profile")]`. Below this, there is C# code for two classes:

```
public class ProfileV1
{
    [DataMember]
    public string Username;
}

public class ProfileV2
{
    [DataMember]
    public string Username;

    [DataMember]
    public string Email;
}
```

QUESTION 23

You are developing a WCF service. A new service instance must be created for each client request. You need to choose an instancing mode. Which instancing mode should you use?

- A. Single
- B. PerRequest
- C. PerCall
- D. Multiple
- E. PerSession

Answer: C

QUESTION 24

Drag and Drop Question

You are creating a WCF service. The service endpoints must be exposed to the Windows Azure Service Bus. The service bus has a namespace named RestaurantSB. The key provider is "owner". You need to modify the web.config file to expose the endpoints. How should you modify the file? (To answer, drag the appropriate attributes to the correct location or locations in the answer area. Each attribute may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Answer Area | |
|--------------|--|
| issuerName | <services> |
| Contract | <service name="RestaurantService.MenuService"> |
| issuerKey | <endpoint <input type="text"/> ="RestaurantService.IMenuService" |
| User | binding="netTcpRelayBinding" |
| issuerSecret | address="sb://RestaurantServiceBus.servicebus.windows.net/Menu" |
| | behaviorConfiguration="sbBehavior"/> |
| | </service> |
| | </services> |
| | <behaviors> |
| | <endpointBehaviors> |
| | <behavior name="sbBehavior"> |
| | <transportClientEndpointBehavior> |
| | <tokenProvider> |
| | <sharedSecret |
| | <input type="text"/> ="owner" |
| | <input type="text"/> ="1oAFgNsbaN8+UIN737K="/> |
| | </tokenProvider> |
| | </transportClientEndpointBehavior> |
| | </behavior> |
| | </endpointBehaviors> |
| | </behaviors> |

Answer:

issuerName

Contract

issuerKey

User

issuerSecret

Answer Area

```

<services>
  <service name="RestaurantService.MenuService">

    <endpoint Contract ="RestaurantService.IMenuService"

      binding="netTcpRelayBinding"
      address="sb://RestaurantServiceBus.servicebus.windows.net/Menu"
      behaviorConfiguration="sbBehavior"/>
    </service>
  </services>
  <behaviors>
    <endpointBehaviors>
      <behavior name="sbBehavior">
        <transportClientEndpointBehavior>
          <tokenProvider>
            <sharedSecret>

              issuerName ="owner"

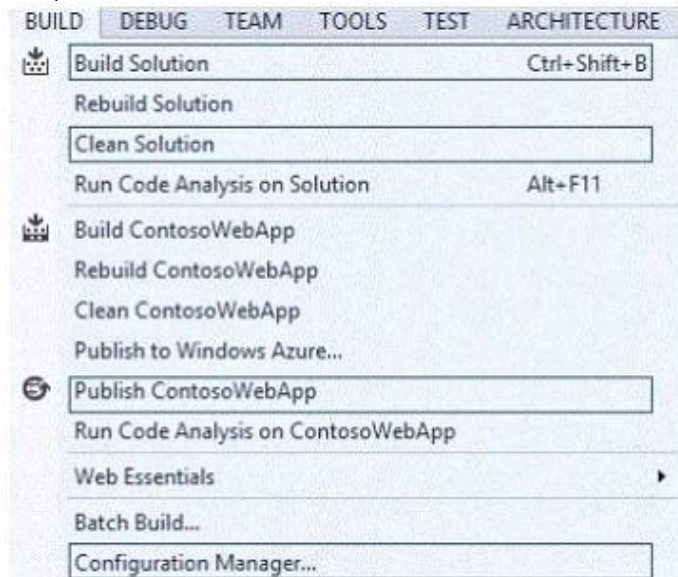
              issuerSecret ="1oAFgNsbaN8+UIN737K="/>

            </tokenProvider>
          </transportClientEndpointBehavior>
        </behavior>
      </endpointBehaviors>
    </behaviors>
  
```

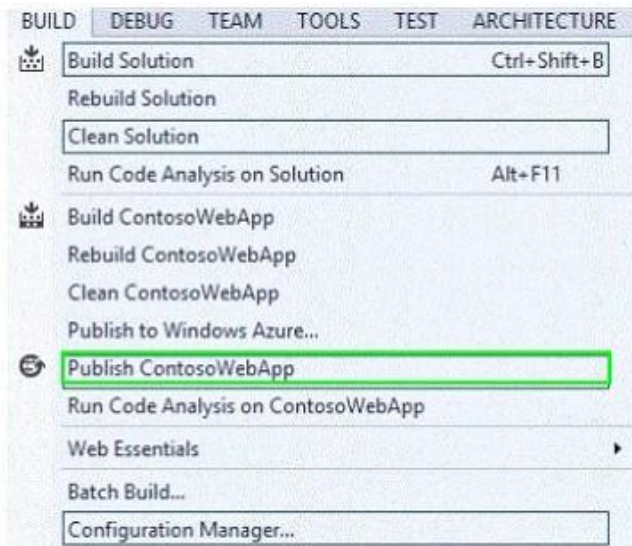
QUESTION 25

Hotspot Question

You are developing an ASP.NET MVC application named ContosoWebApp. You are ready to deploy the application to your production web server. You need to import the publishing profile. Which menu item should you use? (To answer, select the appropriate menu item in the answer area).



Answer:



QUESTION 26

Drag and Drop Question

You are developing an ASP.NET MVC Web API application. The application must meet the following requirements:

- It must send or receive data without the use of a buffer.
- It must allow up to 1 MB of data to be received.
- It must allow up to 2 MB of data to be sent.

You need to complete the code to meet the requirements. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

config

server

MaxBufferSize

MaxReceivedMessageSize

MaxConcurrentRequests

Streamed

Buffered

Answer Area

```

class Program
{
    private static string _baseAddress = "http://localhost:8080/";

    static void Main(string[] args)
    {
        var config = new HttpSelfHostConfiguration(_baseAddress);
        config.Routes.MapHttpRoute(
            name: "DefaultApi",
            routeTemplate: "api/{controller}/{id}",
            defaults: new { id = RouteParameter.Optional }
        );

        _____ . _____ = 1024 * 1024 * 2;

        _____ . _____ = 1024 * 1024;

        _____ .TransferMode =

        TransferMode. _____ ;

        var server = new HttpSelfHostServer(config);
        server.OpenAsync().Wait();
    }
}
                    
```

Answer:

config

server

MaxBufferSize

MaxReceivedMessageSize

MaxConcurrentRequests

Streamed

Buffered

Answer Area

```

class Program
{
    private static string _baseAddress = "http://localhost:8080/";

    static void Main(string[] args)
    {
        var config = new HttpSelfHostConfiguration(_baseAddress);
        config.Routes.MapHttpRoute(
            name: "DefaultApi",
            routeTemplate: "api/{controller}/{id}",
            defaults: new { id = RouteParameter.Optional }
        );

        config.MaxBufferSize = 1024 * 1024 * 3;
        config.MaxReceivedMessageSize = 1024 * 1024 * 4;
        config.TransferMode = TransferMode.Streamed;

        var server = new HttpSelfHostServer(config);
        server.OpenAsync().Wait();
    }

```

QUESTION 27

Drag and Drop Question

You are developing an ASP.NET Web API action method. The action method must return the following JSON in the message body.

```
{ "Name": "Fabrikam", "VendorId": 9823, "Items": [ "Dogs", "Cats" ] }
```

You need to return an anonymous object that is serialized to JSON. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

"Fabrikam", VendorNumber = "9823",

new List<string> { "Dogs, Cats" }

return new List<string>

Answer Area

```

public object Get()
{
    return new
    {
        Name = "Fabrikam", VendorNumber = 9823,
        Items = new List<string> { "Dogs", "Cats" }
    };
}

```

Answer:

"Fabrikam", VendorNumber = "9823",

new List<string> { "Dogs, Cats" }

return new List<string>

Answer Area

```

public object Get()
{
    return new
    {
        Name = "Fabrikam", VendorNumber = 9823,
        Items = new List<string> { "Dogs", "Cats" }
    };
}

```

QUESTION 28

You are designing an ASP.NET Web API application. You need to select an HTTP verb to allow blog administrators to remove a comment. Which HTTP verb should you use?

- A. PUT
- B. DELETE
- C. POST
- D. GET

Answer: B

QUESTION 29

Drag and Drop Question

You are developing an ASP.NET Web API application for currency conversion that will be consumed by a web browser by using a composite application that is served from another web domain. You need to configure the Web API. What should you do? (To answer, drag the appropriate XML elements to the correct location or locations in the answer area. Each XML element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| | Answer Area |
|--------------------------------------|---|
| Access-Control-Allow-Origin | <httpProtocol> |
| Access-Control-Allow-Headers | <customHeaders> |
| Access-Control-Allow-Methods | <add name="Access-Control-Allow-Origin" |
| Access-Control-Allow-Request-Method | value=" " /> |
| Access-Control-Allow-Request-Headers | <add name=" " " |
| * | value="PUT, DELETE"/> |
| POST, GET | <add name=" " " |
| Content-Type | value=" " /> |
| | </customHeaders> |
| | </httpProtocol> |

Answer:

| Access-Control-Allow-Origin | Access-Control-Allow-Headers | Access-Control-Allow-Methods | Access-Control-Allow-Request-Method | Access-Control-Allow-Request-Headers | * | POST, GET | Content-Type |
|-----------------------------|------------------------------|------------------------------|-------------------------------------|--------------------------------------|---|-----------|--------------|
| | | | | | | | |

Answer Area

```

<httpProtocol>
<customHeaders>
  <add name="Access-Control-Allow-Origin"
    value="*" />
  <add name="Access-Control-Allow-Methods"
    value="PUT, DELETE"/>
  <add name="Access-Control-Allow-Headers"
    value="Content-Type" />
</customHeaders>
</httpProtocol>

```

QUESTION 30

You are developing an ASP.NET MVC application. The application is an order processing system that uses the ADO.NET Entity Framework against a SQL Server database. It has a controller that loads a page that displays all orders along with customer information. Lazy loading has been disabled. The Order class is shown below.

```

public partial class Order
{
    ...
    public string CustomerID { get; set; }
    ...
    public virtual Customer Customer { get; set; }
}

```

You need to return the orders and customer information in a single round trip to the database. Which code segment should you use?

- ☐ A. `public ActionResult Index()`
- ```

{
 IQueryable<Order> orders = db.Orders;
 orders = orders.Include("Customer");
 return View(orders.ToList());
}

```
- ☐ B. `public ActionResult Index()`
- ```

{
    IQueryable<Order> orders = db.Orders.Include("Order.Customer");
    return View(orders.ToList());
}

```
- ☐ C. `public ActionResult Index()`
- ```

{
 IQueryable<Order> orders = db.Orders;
 orders.Select(o => o.Customer).Load();
 return View(orders.ToList());
}

```
- ☐ D. `public ActionResult Index()`
- ```

{
    IQueryable<Order> orders = db.Orders;
    return View(orders.ToList());
}

```

- A. Option A
B. Option B
C. Option C

D. Option D

Answer: A

QUESTION 31

You are developing an ASP.NET MVC application that reads and writes data from a SQL Server database. You need to maintain data integrity in all situations that use transactions.

- A. ReadUncommitted
- B. Repeatable
- C. Serializable
- D. ReadCommitted

Answer: C

Explanation:

SQL Server Isolation Levels

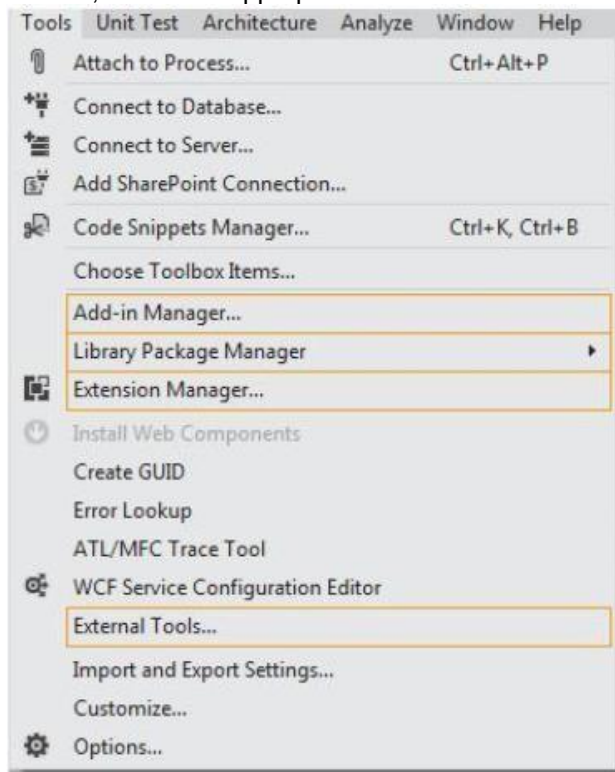
[http://msdn.microsoft.com/en-us/library/ms189122\(v=sql.105\).aspx](http://msdn.microsoft.com/en-us/library/ms189122(v=sql.105).aspx)

<http://msdn.microsoft.com/en-us/library/ms173763.aspx>

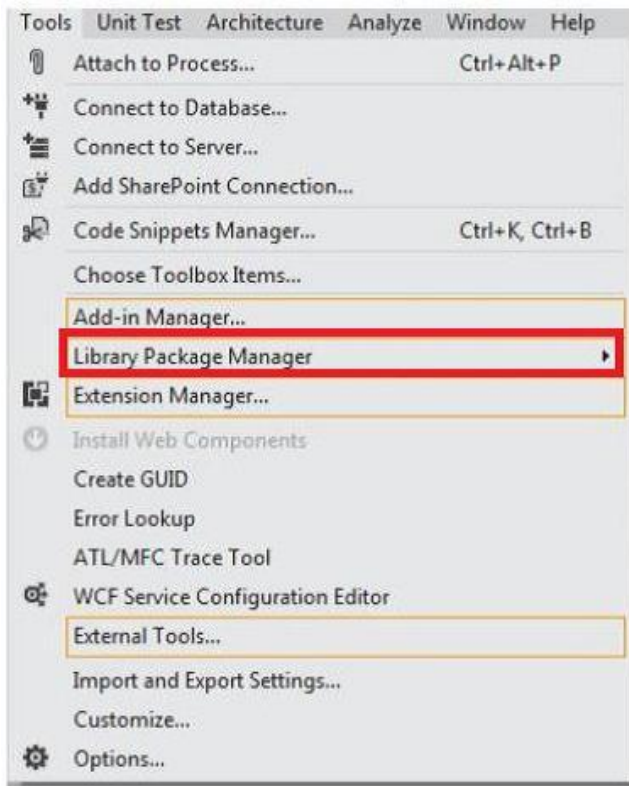
QUESTION 32

Hotspot Question

You are supporting an application that uses the ADO.NET Entity Framework to query and access data. The latest version of Entity Framework contains bug fixes that will improve performance. You need to update Entity Framework. Which Visual Studio 2012 menu item should you choose? (To answer, select the appropriate menu item in the answer area.)



Answer:



QUESTION 33

You are developing an ASP.NET MVC application. Deployment administrators do not have access to Visual Studio 2010, but will have the elevated permissions required to deploy the application to the servers. You need to select a deployment tool for use by the deployment administrators. Which tool should you use?

- A. Publish Web Site Tool
- B. Web Deployment Package
- C. One-Click Publish
- D. Deployment Package Editor

Answer: B

Case Study 1 - Flight Information (QUESTION 34 - QUESTION 48)

Background

You are developing a flight information consolidation service. The service retrieves flight information from a number of sources and combines them into a single data set. The consolidated flight information is stored in a SQL Server database. Customers can query and retrieve the data by using a REST API provided by the service. The service also offers access to historical flight information. The historical flight information can be filtered and queried in an ad hoc manner. The service runs on a Windows Azure Web Role. SSL is not used.

Business Requirements

- A new data source for historical flight information is being developed by a contractor located on another continent.
- If a time zone is not specified, then it should be interpreted as Coordinated Universal Time (UTC).
- When you upgrade a service from a staging deployment to a production

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deployment, the time that the service is unavailable must be minimized.

- The default port must be used for HTTP.

Technical Requirements

The existing sources of flight information and the mechanism of exchange are listed below.

- Blue Yonder Airlines provides flight information in an XML file.
- Consolidated Messenger provides flight information in a Microsoft Access database that is uploaded every 12 hours to the service using SFTP. The company uses port 22 for SFTP.
- Margie's Travel provides and consumes flight information using serialized ADO.NET DataSets. Data is periodically synced between the service and Margie's Travel.
- Trey Research provides data from multiple sources serialized in proprietary binary formats. The data must be read by using .NET assemblies provided by Trey Research. The assemblies use a common set of dependencies.
- The current version of the Trey Research assemblies is 1.2.0.0. All assemblies provided by Trey Research are signed with a key pair contained in a file named Trey.snk, which Trey Research also supplies.
- The application specification requires that any third-party assemblies must have strong names.

Application Structure

FlightInfo.cs

```
public class FlightInfo
{
    string DataSource { get; set; }
    public string Airline { get; set; }
    public string Flight { get; set; }
    public DateTimeOffset Arrival { get; set; }
    public int Seats { get; set; }
    public bool WasLate { get; set; }
}
```

BlueYonderLoader.cs

```
public class BlueYonderLoader
{
    public IEnumerable<RawFlightData> LoadFlights(XDocument feed)
    {
        ...
    }

    private RawFlightData Parse(XElement flightElement)
    {
        ...
    }
}
```


HistoricalDataLoader.cs

```
public class HistoricalDataLoader
{
    public static IEnumerable<HistoricalFlightInfo> LoadHistoricalFlights()
    {
        ...
    }

    public void StreamHistoricalFlights(XmlWriter responseWriter, string airline)
    {
        ...
    }

    private XElement ConvertToHistoricalFlight(XElement flight)
    {
        return new XElement("Flight", flight);
    }

    private string GetAirline(XElement flightName)
    {
        return flightName.Value.Substring(0, 2);
    }

    IEnumerable<XElement> RemoteDataStream()
    {
        return XDocument.Load("").Elements();
    }
}
```

MargiesTravelSync.cs

```
public class MargiesTravelSync
{
    public void Sync()
    {
        ...
    }

    private DataSet LoadLocal()
    {
        var dataSet = new DataSet();
        dataSet.ReadXml("local");
        return dataSet;
    }

    private StreamWriter SendStream()
    {
        return new StreamWriter("SendStream");
    }

    private StreamReader ReceiveStream()
    {
        return new StreamReader("ReceiveStream");
    }
}
```

FlightInfoContext.cs

```
public class FlightInfoContext : DbContext
{
    public DbSet<FlightInfo> FlightInfo { get; set; }

    public override int SaveChanges()
    {
        return base.SaveChanges();
    }

    private bool IsTransient(int ex)
    {
        var errors = new[] { 10053, 10054, 64 };
        return errors.Contains(ex);
    }
}
```

FlightDataController.cs

```
public class FlightDataController : ApiController
{
    FlightInfoContext _Context;

    public FlightDataController()
    {
        _Context = new FlightInfoContext();
    }

    [HttpGet]
    public IEnumerable<FlightInfo> GetFlightInfo()
    {
        return _Context.FlightInfo.Select(x => x).AsEnumerable();
    }

    private IEnumerable<HistoricalFlightInfo> LoadHistorical()
    {
        return HistoricalDataLoader.LoadHistoricalFlights();
    }
}
```

QUESTION 34

Drag and Drop Question

You need to configure the Windows Azure service definition to enable Consolidated Messenger to upload files. What should you do? (To answer, drag the appropriate configuration items to the correct location or locations. Each configuration item may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Answer Area | |
|---|--|
| <input type="text" value="http"/> | <code><Binding name="Website" endpointName="Website" /></code> |
| <input type="text" value="tcp"/> | <code><Binding name="Transfer" endpointName="Transfer" /></code> |
| <input type="text" value="https"/> | <code></Bindings></code> |
| <input type="text" value="InternalEndpoint"/> | <code></Site></code> |
| <input type="text" value="InputEndpoint"/> | <code></Sites></code> |
| <input type="text" value="80"/> | <code><Endpoints></code> |
| <input type="text" value="22"/> | <code>< [] name="Website"</code> |
| <input type="text" value="3389"/> | <code>protocol=" [] "</code> |
| | <code>port=" [] " /></code> |
| | <code>< [] name="Transfer"</code> |
| | <code>protocol=" [] "</code> |
| | <code>port=" [] " /></code> |
| | <code></Endpoints></code> |
| | <code></WebRole></code> |

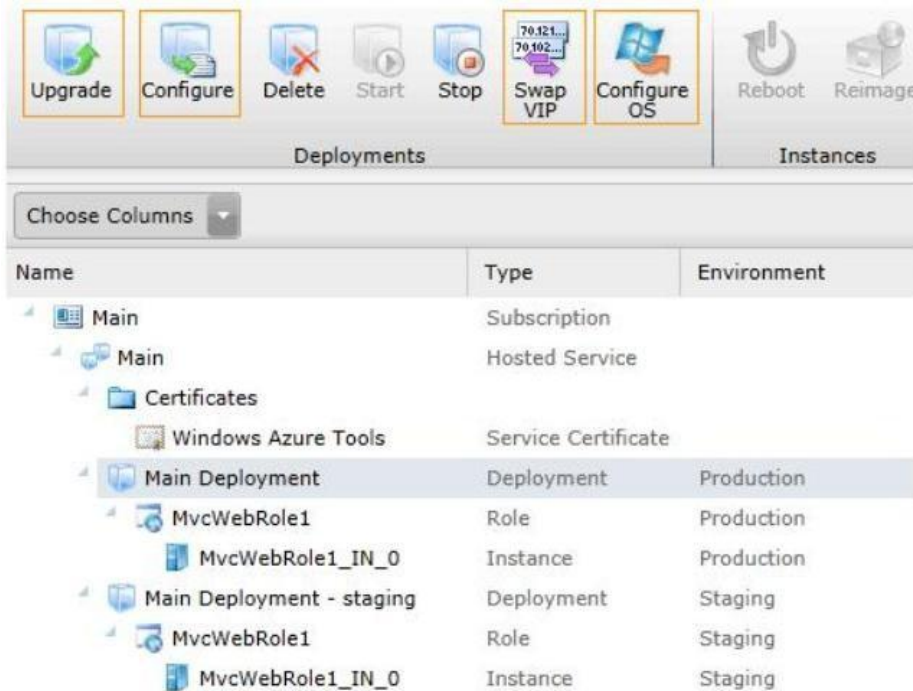
Answer:

| Answer Area | |
|---|--|
| <input type="text" value="http"/> | <code><Binding name="Website" endpointName="Website" /></code> |
| <input type="text" value="tcp"/> | <code><Binding name="Transfer" endpointName="Transfer" /></code> |
| <input type="text" value="https"/> | <code></Bindings></code> |
| <input type="text" value="InternalEndpoint"/> | <code></Site></code> |
| <input type="text" value="InputEndpoint"/> | <code></Sites></code> |
| <input type="text" value="80"/> | <code>< InputEndpoint name="Website"</code> |
| <input type="text" value="22"/> | <code>protocol=" http "</code> |
| <input type="text" value="3389"/> | <code>port=" 80 " /></code> |
| | <code>< InputEndpoint name="Transfer"</code> |
| | <code>protocol=" tcp "</code> |
| | <code>port=" 22 " /></code> |
| | <code></Endpoints></code> |
| | <code></WebRole></code> |

QUESTION 35

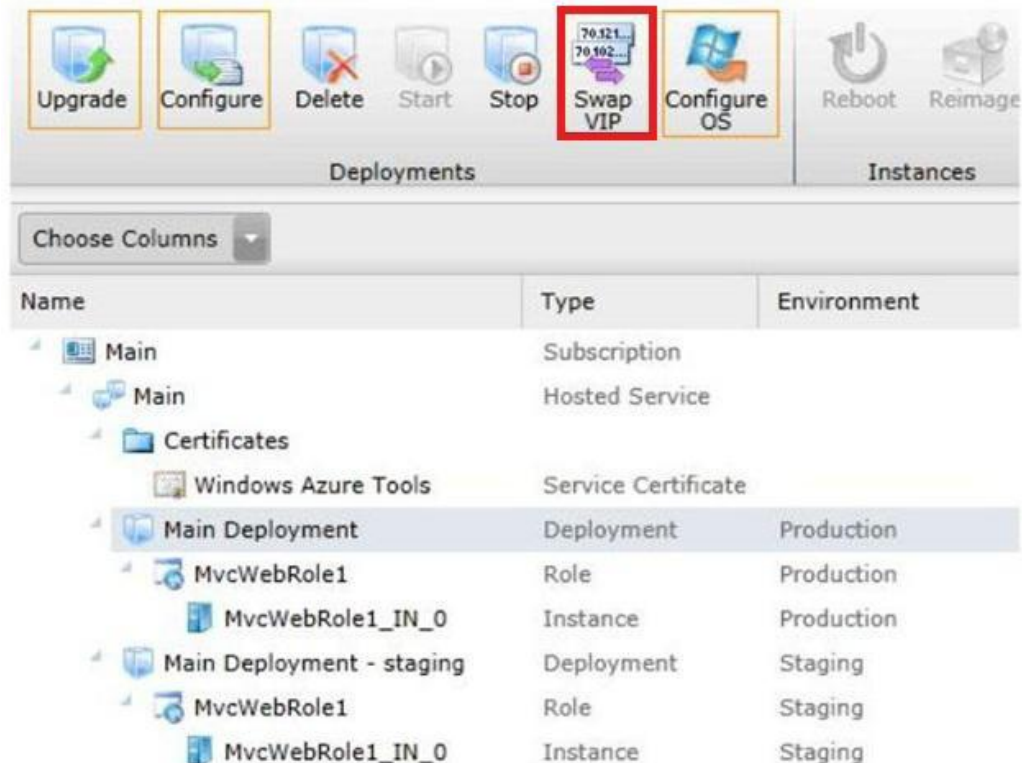
Hotspot Question

You need to deploy the application to the Windows Azure production environment to meet the business requirements. What should you do? (To answer, select the appropriate button in the answer area.)



| Name | Type | Environment |
|---------------------------|---------------------|-------------|
| Main | Subscription | |
| Main | Hosted Service | |
| Certificates | | |
| Windows Azure Tools | Service Certificate | |
| Main Deployment | Deployment | Production |
| MvcWebRole1 | Role | Production |
| MvcWebRole1_IN_0 | Instance | Production |
| Main Deployment - staging | Deployment | Staging |
| MvcWebRole1 | Role | Staging |
| MvcWebRole1_IN_0 | Instance | Staging |

Answer:



| Name | Type | Environment |
|---------------------------|---------------------|-------------|
| Main | Subscription | |
| Main | Hosted Service | |
| Certificates | | |
| Windows Azure Tools | Service Certificate | |
| Main Deployment | Deployment | Production |
| MvcWebRole1 | Role | Production |
| MvcWebRole1_IN_0 | Instance | Production |
| Main Deployment - staging | Deployment | Staging |
| MvcWebRole1 | Role | Staging |
| MvcWebRole1_IN_0 | Instance | Staging |

QUESTION 36

You need to recommend a data access technology to the contractor to retrieve data from the new data source. Which data access technology should you recommend?

- A. LINQ to XML
- B. ADO.NET Entity Framework
- C. ADO.NET DataSets
- D. WCF Data Services

Answer: D

QUESTION 37

Drag and Drop Question

Flight information data provided by Margie's Travel is updated both locally and remotely. When the data is synced, all changes need to be merged together without causing any data loss or corruption. You need to implement the Sync() method in the MargiesTravelSync.es file. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

XmlReadMode.DiffGram

XmlReadMode.Fragment

XmlReadMode.InferSchema

XmlWriteMode.DiffGram

XmlWriteMode.IgnoreSchema

Answer Area

```

public void Sync()
{
    var sendStream = SendStream();
    var receiveStream = ReceiveStream();
    var local = LoadLocal();

    local.WriteXml(sendStream, );
    local.ReadXml(receiveStream, );
}
                
```

Answer:

XmlReadMode.DiffGram

XmlReadMode.Fragment

XmlReadMode.InferSchema

XmlWriteMode.DiffGram

XmlWriteMode.IgnoreSchema

Answer Area

```

public void Sync()
{
    var sendStream = SendStream();
    var receiveStream = ReceiveStream();
    var local = LoadLocal();

    local.WriteXml(sendStream, XmlWriteMode.DiffGram );
    local.ReadXml(receiveStream, XmlReadMode.DiffGram );
}
                
```

QUESTION 38

Drag and Drop Question

Historical flight information data will be stored in Windows Azure Table Storage using the FlightInfo class as the table entity. There are millions of entries in the table. Queries for historical flight information specify a set of airlines to search and whether the query should return only late flights. Results should be ordered by flight name. You need to specify which properties of the FlightInfo class should be used at the partition and row keys to ensure that query results are returned as quickly as possible. What should you do? (To answer, drag the appropriate properties to the correct location or locations in the answer area. Each property may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Answer Area | |
|-------------|---|
| Airline | Use the <input type="text"/> property as the partition key. |
| WasLate | |
| Flight | Use the <input type="text"/> property as the row key. |
| Arrival | |

Answer:

| Answer Area | |
|-------------|---|
| Airline | Use the <input type="text" value="Airline"/> property as the partition key. |
| WasLate | |
| Flight | Use the <input type="text" value="Flight"/> property as the row key. |
| Arrival | |

QUESTION 39

Drag and Drop Question

The service has been deployed to Windows Azure. Trey Research has provided version 1.3.0.0 of the assembly to support a change in the serialization format. The service must remain available during the transition to the new serialization format. You need to ensure that the service is using the new assembly. Which configuration setting should you add to the web.config? (To answer, drag the appropriate configuration elements to the correct location or locations in the answer area. Each configuration element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

codeBase version="1.3.0.0" href="Trey.Serialization.dll"

bindingRedirect oldVersion="1.2.5.0" newVersion="1.3.0.0"

bindingRedirect oldVersion="1.2.0.0" newVersion="1.3.0.0"

runtime

location

< >

<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
<dependentAssembly>
<assemblyIdentity name="Trey.Serialization" />

< >

</dependentAssembly>
</assemblyBinding>

</ >

Answer:

```
codeBase version="1.3.0.0" href="Trey.Serialization.dll"
bindingRedirect oldVersion="1.2.5.0" newVersion="1.3.0.0"
bindingRedirect oldVersion="1.2.0.0" newVersion="1.3.0.0"
runtime
location

< runtime >

<assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
  <dependentAssembly>
    <assemblyIdentity name="Trey.Serialization" />

    < bindingRedirect oldVersion="1.2.0.0" newVersion="1.3.0.0"

  </dependentAssembly>
</assemblyBinding>

</ runtime >
```

Explanation:

<http://msdn.microsoft.com/en-us/library/7wd6ex19.aspx>

QUESTION 40

Errors occasionally occur when saving data using the FlightInfoContext ADO.NET Entity Framework context. Updates to the data are being lost when an error occurs. You need to ensure that data is still saved when an error occurs by retrying the operation. No more than five retries should be performed. Which code segment should you use as the body of the SaveChanges() method in the FlightInfoContext.es file?

C A.

```
for (var i = 0; i < 5; i++)
{
    try
    {
        return base.SaveChanges();
    }
    catch (SqlException ex)
    {
        if (IsTransient(ex.Number))
        {
            continue;
        }
    }
}
return base.SaveChanges();
```

C B.

```
var exception = new EntitySqlException();
while (exception.Data != 0 && exception.Data.Count < 5)
{
    try
    {
        return base.SaveChanges();
    }
    catch (EntitySqlException ex)
    {
        if (IsTransient(ex.HResult))
        {
            exception = ex;
        }
    }
}
return base.SaveChanges();
```

☐ C.

```
for (var i = 0; i < 5; i++)
{
    try
    {
        return base.SaveChanges();
    }
    catch (SqlException ex)
    {
        if (IsTransient(ex.Number))
        {
            break;
        }
    }
}
return base.SaveChanges();
```

☐ D.

```
for (var i = 0; i < 5; i++)
{
    try
    {
        return base.SaveChanges();
    }
    catch (SqlException ex)
    {
        if (!IsTransient(ex.Number))
        {
            continue;
        }
    }
}
return base.SaveChanges();
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

QUESTION 41

You are adding a new REST service endpoint to the FlightDataController controller. It returns flights from the consolidated data sources only for flights that are late. You need to write a LINQ to Entities query to extract the required data. Which code segment should you use?

- ☐ A.

```
var historical = LoadHistorical();  
var query = _Context.FlightInfo.AsQueryable()  
    .Join(historical, x => x.Flight, y => y.Flight, (x, y) => new { Current = x,  
    Historical = y })  
    .Where(x => x.Historical.WasLate)  
    .Select(x => x.Current);
```
- ☐ B.

```
var historical = LoadHistorical();  
var query = _Context.FlightInfo.AsEnumerable()  
    .Where(x => historical.All(y => y.WasLate && x.Flight == y.Flight))  
    .Select(x => x);
```
- ☐ C.

```
var historical = LoadHistorical();  
var query = _Context.FlightInfo.AsQueryable()  
    .Where(x => historical.Select(y => y.Flight).Contains(x.Flight))  
    .Where(x => historical.Any(y => y.WasLate))  
    .Select(x => x);
```
- ☐ D.

```
var historical = LoadHistorical();  
var query = _Context.FlightInfo.AsEnumerable()  
    .Join(historical, x => x.Flight, y => y.Flight, (x, y) => new { Current = x,  
    Historical = y })  
    .Where(x => x.Historical.WasLate)  
    .Select(x => x.Current);
```

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

Explanation:

D is right because you send result as REST so if you use "AsQueryable" the result is deferred to the next enumeration of your result. D is not optimized but will works.

QUESTION 42

Data provided by Consolidated Messenger is cached in the HttpContext.Cache object. You need to ensure that the cache is correctly updated when new data arrives. What should you do?

- A. Ensure that the EffectivePrivateBytesLimit value is greater than the size of the database file.
B. Change the sliding expiration of the cache item to 12 hours.
C. Use the SqlCacheDependency type configured with a connection string to the database file.
D. Use the CacheDependency type configured to monitor the SFTP target folder.

Answer: D

QUESTION 43

You need to load flight information provided by Consolidated Messenger. Which should you use?

- A. SQL Server Data Transformation Services (DTS)
B. EntityTransaction and EntityCommand
C. Office Open XML
D. OleDbConnection and OleDbDataReader

Answer: D

QUESTION 44

Drag and Drop Question

You need to parse flight information from Blue Yonder Airlines. The content of the XML file is shown below.

```
<?xml version="1.0" encoding="utf-8"?>
<AirlineFeed>
  <Flight xmlns="urn:CFI" name="AS515">
    <Seats>123</Seats>
    <Arrival>5/2/2011 12:01:13</Arrival>
  </Flight>
  <Flight name="UN24">
    <Seats>123</Seats>
    <Arrival>5/1/2012 10:17:57 PM +02:00</Arrival>
  </Flight>
  <FlightManifest>
    ...
  </FlightManifest>
</AirlineFeed>
```

Some airlines do not specify the timezone of the arrival time. If the timezone is not specified, then it should be interpreted per the business requirements. You need to implement the LoadFlights() and Parse() methods of the BlueYonderLoader class. What should you do? (To answer, drag the appropriate code segments to the correct location in the answer area. Each segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
var flights = feed.Elements(  
    feed.Root.GetPrefixOfNamespace("{urn:CFI}") + "Flight");
```

```
var flights = feed.Descendants().Where(x =>  
    x.NodeType != XmlNodeType.XmlDeclaration && (string)x ==  
    "Flight");
```

```
var flights = feed.Descendants("{urn:CFI}Flight")  
    .Concat(feed.Descendants("Flight"));
```

```
fi.Arrival = DateTimeOffset.Parse(arrivalRaw,  
    null, System.Globalization.DateTimeStyles.AssumeUniversal);
```

```
fi.Arrival = DateTimeOffset.Parse(arrivalRaw,  
    null, System.Globalization.DateTimeStyles.AdjustToUniversal);
```

```
fi.Arrival = XmlConvert.ToDateTimeOffset(arrivalRaw,  
    new[] { "Local", "Universal" });
```

=====

```
public IEnumerable<FlightInfo> LoadFlights(XDocument feed)  
{  
  
    return flights.Select(x => Parse(x));  
}
```

```
private FlightInfo Parse(XElement flightElement)  
{  
    var fi = new FlightInfo();  
    fi.Flight = flightElement.Attribute("name").Value;  
    var arrivalRaw = flightElement.Element("Arrival").Value;  
  
    fi.Seats = XmlConvert.ToInt32(flightElement.Element("Seats").Value);  
    return fi;  
}
```

Answer:

```
var flights = feed.Elements(  
    feed.Root.GetPrefixOfNamespace("{urn:CFI}") + "Flight");
```

```
var flights = feed.Descendants().Where(x =>  
    x.NodeType != XmlNodeType.XmlDeclaration && (string)x ==  
    "Flight");
```

```
var flights = feed.Descendants("{urn:CFI}Flight")  
    .Concat(feed.Descendants("Flight"));
```

```
fi.Arrival = DateTimeOffset.Parse(arrivalRaw,  
    null, System.Globalization.DateTimeStyles.AssumeUniversal);
```

```
fi.Arrival = DateTimeOffset.Parse(arrivalRaw,  
    null, System.Globalization.DateTimeStyles.AdjustToUniversal);
```

```
fi.Arrival = XmlConvert.ToDateTimeOffset(arrivalRaw,  
    new[] { "Local", "Universal" });
```

```
public IEnumerable<FlightInfo> LoadFlights(XDocument feed)  
{  
    var flights = feed.Descendants("{urn:CFI}Flight")  
        .Concat(feed.Descendants("Flight"));  
    return flights.Select(x => Parse(x));  
}
```

```
private FlightInfo Parse(XElement flightElement)  
{  
    var fi = new FlightInfo();  
    fi.Flight = flightElement.Attribute("name").Value;  
    var arrivalRaw = flightElement.Element("Arrival").Value;  
    fi.Arrival = DateTimeOffset.Parse(arrivalRaw,  
        null, System.Globalization.DateTimeStyles.AssumeUniversal);  
    fi.Seats = XmlConvert.ToInt32(flightElement.Element("Seats").Value);  
    return fi;  
}
```

QUESTION 45

You are adding a new REST service endpoint to the FlightDataController controller that returns the total number of seats for each airline. You need to write a LINQ to Entities query to extract the required data. Which code segment should you use?

- ☐ A.

```
var query = from flight in _Context.FlightInfo
group flight by flight.Seats into agg
let airline = agg.First()
select new
{
    TotalSeats = agg.Key,
    Airline = airline,
};
```
- ☐ B.

```
var query = from flight1 in _Context.FlightInfo
from flight2 in _Context.FlightInfo
where flight1.Airline == flight2.Airline
select new
{
    Airline = flight1.Airline,
    TotalSeats = Math.BigMul(flight1.Seats, flight2.Seats),
};
```
- ☐ C.

```
var query = from flight in _Context.FlightInfo
from airline in flight.Airline
group airline by airline into agg
select new
{
    Airline = agg.Key,
    TotalSeats = agg.Sum(x => Convert.ToInt32(x)),
};
```
- ☐ D.

```
var query = from flight in _Context.FlightInfo
group flight by flight.Airline into agg
select new
{
    Airline = agg.Key,
    TotalSeats = agg.Sum(x => x.Seats),
};
```

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

QUESTION 46

Historical flight information data will be stored in Windows Azure Table Storage using the FlightInfo class as the table entity. There are millions of entries in the table. Queries for historical flight information specify a set of airlines to search and whether the query should return only late flights. Results should be ordered by flight name. You need to specify which properties of the FlightInfo class should be used at the partition and row keys to ensure that query results are returned as quickly as possible. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Use the WasLate property as the row key.
- B. Use the Airline property as the row key.
- C. Use the WasLate property as the partition key.
- D. Use the Arrival property as the row key.
- E. Use the Airline property as the partition key.
- F. Use the Flight property as the row key.

Answer: EF

QUESTION 47

Transformed historical flight information provided by the RemoteDataStream() method must be written to the response stream as a series of XML elements named Flight within a root element named Flights. Each Flight element has a child element named FlightName that contains the flight name that starts with the two-letter airline prefix. You need to implement the StreamHistoricalFlights() method so that it minimizes the amount of memory allocated. Which code segment should you use as the body of the StreamHistoricalFlights() method in the HistoricalDataLoader.es file?

- ☐ A.

```
responseWriter.WriteStartElement("Flights");
var flights = RemoteDataStream()
    .OrderBy(x => GetAirline(x.Element("FlightName")));
var filteredFlights = flights
    .SkipWhile(x => GetAirline(x.Element("FlightName")) != airline);
foreach (var f in filteredFlights)
{
    var flight = ConvertToHistoricalFlight(f);
    flight.WriteTo(responseWriter);
}
responseWriter.WriteEndElement();
```
- ☐ B.

```
responseWriter.WriteStartElement("Flights");
var flights = RemoteDataStream().Select(x =>
{
    if (GetAirline(x) == airline)
    {
        return ConvertToHistoricalFlight(x);
    }
    return null;
});
flights.TakeWhile(x =>
{
    x.WriteTo(responseWriter);
    return x != null;
});
responseWriter.WriteEndElement();
```
- ☐ C.

```
var data = RemoteDataStream().ToDictionary(x =>
    GetAirline(x.Element("FlightName")),
    x => new XElement("Flights", ConvertToHistoricalFlight(x).Descendants()));
data[airline].WriteTo(responseWriter);
```
- ☐ D.

```
var flights = new XElement("Flights",
    from flight in RemoteDataStream()
    where GetAirline(flight.Element("FlightName")) == airline
    select ConvertToHistoricalFlight(flight));
flights.WriteTo(responseWriter);
```

- A. Option A
- B. Option B
- C. Option C

D. Option D

Answer: D

Explanation:

<http://msdn.microsoft.com/en-us/library/system.xml.linq.xstreamingelement.aspx>

<http://msdn.microsoft.com/en-us/library/bb551307.aspx>

QUESTION 48

Errors occasionally occur when saving data using the FlightInfoContext ADO.NET Entity Framework context. Updates to the data are being lost when an error occurs. You need to ensure that data is still saved when an error occurs by retrying the operation. No more than five retries should be performed. With which code segment should you replace the body of the SaveChanges() method in the FlightInfoContext.es file?

- ☐ A.

```
var result = FlightInfo.SqlQuery("UPDATE WITH RETRY", FlightInfo, "IsTransient", 5);
if (result.Count() > 5)
{
    result.AsNoTracking();
    return -1;
}
return 0;
```
- ☐ B.

```
try
{
    return base.SaveChanges();
}
catch (EntityCommandExecutionException ex)
{
    if (ex.Data.Keys.Cast<int>().Any(x => IsTransient(x)))
    {
        return 5 & SaveChanges();
    }
    return -1;
}
```
- ☐ C.

```
for (var i = 0; i < 5; i++)
{
    try
    {
        return base.SaveChanges();
    }
    catch (SqlException ex)
    {
        if (IsTransient(ex.Number))
        {
            continue;
        }
    }
}
return base.SaveChanges();
```
- ☐ D.

```
var exception = new EntitySqlException();
while (exception.HResult != 0 && exception.Data.Count < 5)
{
    try
    {
        return base.SaveChanges();
    }
    catch (EntitySqlException ex)
    {
        if (IsTransient(ex.HResult))
        {
            exception = ex;
        }
    }
}
return base.SaveChanges();
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

Explanation:

- EntitySqlException: Represents errors that occur when parsing Entity SQL command text. This exception is thrown when syntactic or semantic rules are violated.
- SqlException: The exception that is thrown when SQL Server returns a warning or error. This class cannot be inherited.
- EntityCommandExecutionException: Represents errors that occur when the underlying storage provider could not execute the specified command. This exception usually wraps a provider-specific exception.

Case Study 2 - ASP.NET MVC (QUESTION 49 - QUESTION 63)

Background

You are developing an ASP.NET MVC application in Visual Studio 2012 that will be used to process orders.

Business Requirements

The application contains the following three pages.

- A page that queries an external database for orders that are ready to be processed. The user can then process the order.
- A page to view processed orders.
- A page to view vendor information.

The application consumes three WCF services to retrieve external data.

Technical Requirements

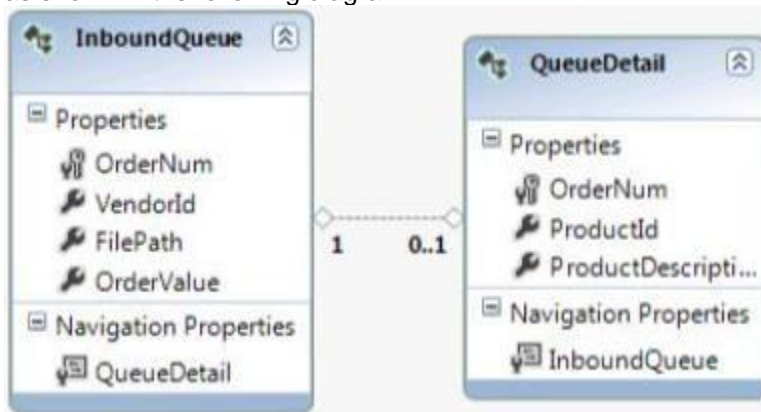
Visual Studio Solution:

The solution contains the following four projects.

- ExternalQueue: A WCF service project used to communicate with the external order database.
- OrderProcessor: An ASP.NET MVC project used for order processing and logging order metadata.
- OrderUpload: A WCF service project used to submit order data to an external data source.
- Shipping: A WCF service project used to acquire shipping information.

ExternalQueue Project:

Entity Framework is used for data access. The entities are defined in the ExternalOrders.edmx file as shown in the following diagram.



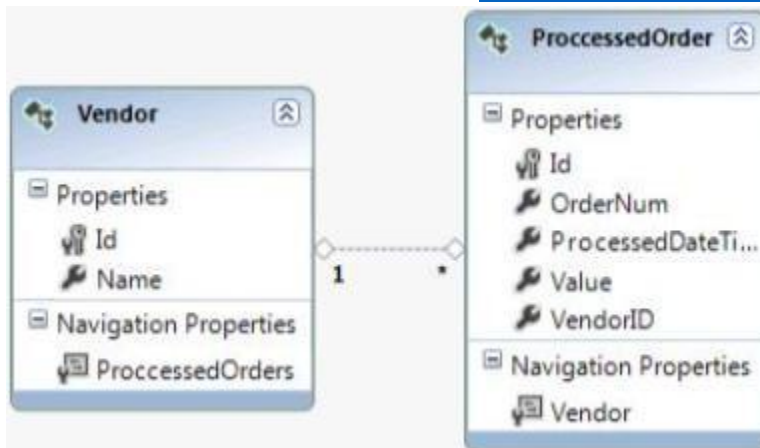
The project contains two services defined in the following files.

- IExternalQueueService.es
- ExternalQueueService.svc

The ExternalQueue.Helpers namespace contains a definition for a class named OrderNotFoundException.

OrderProcessor Project:

Entity Framework is used for data access. The entities are defined in the ProcessedOrders.edmx file as shown in the following diagram.



The classes are contained in the OrderProcessor.Entities namespace. The project contains the following two controllers.

- InboundQueueController.es
- ProcessedOrderController.es

WCF service proxies to the ExternalQueue, Shipping and OrderUpload services have been generated by using the command prompt. The ExecuteCommandProcedure() method in the ExternalQueueService.svc file must run asynchronously. The ProcessedOrderController controller has the following requirements. The GetVendorPolicy() method must enforce a 10 minute absolute cache expiration policy. The GetProcessedOrders() method must return a view of the 10 most recently processed orders.

OrderUpload Project:

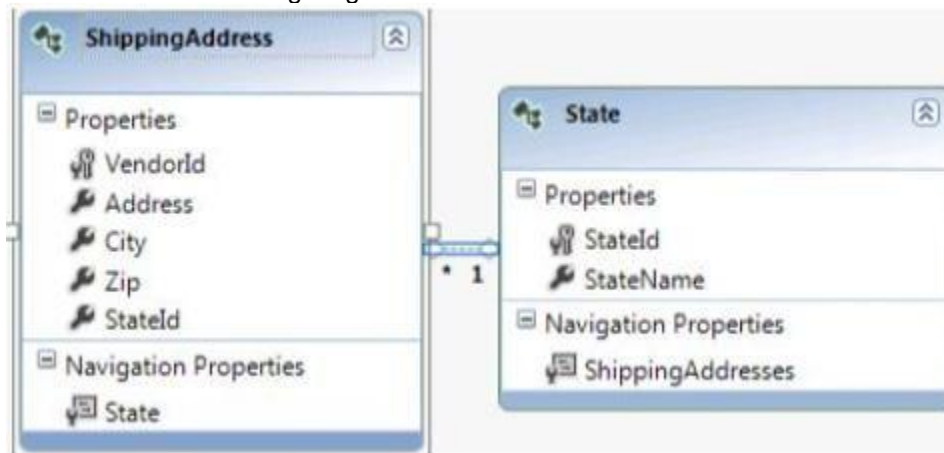
The project contains two services defined in the following files.

- IUploadCallbackService.es
- UploadCallbackService.svc

Data Access is maintained in a file named UploadOrder.es.

Shipping Project:

Entity Framework is used for data access. The entities are defined in the ExternalOrders.edmx file as shown in the following diagram.



The Custom Tool property for ExternalOrders.edmx has been removed. POCO classes for the Entity Model are located in the ShippingAddress.es file. The POCO entity must be loaded by using lazy loading. The project contains two services defined in the following files.

- IShippingService.es
- ShippingService.svc

The IShippingService contract must contain an operation that receives an order number as a parameter. The operation must return a class named ShippingInfo that inherits from a class named

State.

Application Structure

ExternalQueue\IExternalQueueService.cs

```
IQ01 using System.Collections.Generic;
IQ02 using System.ServiceModel;
IQ03 using ExternalQueue.Helpers;
IQ04
IQ05 namespace ExternalQueue
IQ06 {
IQ07     [ServiceContract]
IQ08     public interface IExternalQueueService
IQ09     {
IQ10         [OperationContract]
IQ11         List<Entities.InboundQueue> GetExternalOrders();
IQ12
IQ13         [FaultContract(typeof(OrderNotFoundException))]
IQ14         [OperationContract]
IQ15         void DeleteExternalOrder(int orderNum);
IQ16
IQ17         [OperationContract]
IQ18         Entities.InboundQueue GetExternalOrder(int orderNum);
IQ19     }
IQ20 }
```

ExternalQueue\ProcessedOrderController.cs

```
PC01 using System;
PC02 using System.Collections.Generic;
PC03 using System.Linq;
PC04 using System.Runtime.Caching;
PC05 using System.Web.Mvc;
PC06 using OrderProcessor.Entities;
PC07 using OrderProcessor.Helpers;
PC08 using System.Configuration;
PC09
PC10 namespace OrderProcessor.Controllers
PC11 {
PC12     public class ProcessedOrderController : Controller
PC13     {
PC14         public ActionResult GetProcessedOrders()
PC15         {
PC16             using (var context = new ProcessedOrders())
PC17             {
PC18                 List<Entities.ProcessedOrder> orders = new List<ProcessedOrder>();
PC19                 return View(orders);
PC20             }
PC21         }
PC22
PC23         private ObjectCache cache {get { return MemoryCache.Default; }}
PC24
PC25         public ActionResult GetVendors()
PC26         {
PC27             List<Entities.Vendor> vendors = cache.Get
PC28             ("vendorKey") as List<Entities.Vendor>;
PC29             if (vendors == null)
PC30             {
PC31                 using (var context = new ProcessedOrders())
PC32                 {
PC33                     vendors = context.Vendors.ToList();
PC34                 }
PC35             }
PC36             return View(vendors);
PC37         }
PC38
PC39         private CacheItemPolicy GetVendorPolicy()
PC40         {
PC41             CacheItemPolicy vendorPolicy = new CacheItemPolicy();
PC42
PC43             return vendorPolicy;
PC44         }
PC45
PC46         private List<string> GetTriggerPaths()
PC47         {
PC48             List<string> triggerPath = new List<string>();
PC49             triggerPath.Add(@"c:\triggers\vendorttrigger.txt");
PC50             return triggerPath;
PC51         }
PC52     }
PC53 }
```


OrderProcessor\InboundQueueController.cs

```
IC01 using System;
IC02 using System.Collections.Generic;
IC03 using System.Web.Mvc;
IC04 using OrderProcessor.Entities;
IC05 using ExternalQueue.Entities;
IC06 using System.ServiceModel;
IC07 using System.Collections;
IC08 using ExternalQueue.Helpers;
IC09 using OrderProcessor.Helpers;
IC10 using System.Linq;
IC11
IC12 namespace OrderProcessor.Controllers
IC13 {
IC14     public class InboundQueueController : Controller
IC15     {
IC16         public ActionResult GetQueueItems()
IC17         {
IC18             IEnumerable<InboundQueue> inboundOrders = Enumerable.Empty<InboundQueue>();
IC19             return View(inboundOrders);
IC20         }
IC21
IC22         public ActionResult ProcessOrder(int orderNum)
IC23         {
IC24             ExternalQueueServiceClient qService = new ExternalQueueServiceClient();
IC25             InboundQueue externalOrder = qService.GetExternalOrder(orderNum);
IC26             if (externalOrder != null)
IC27             {
IC28                 using (var context = new ProcessedOrders())
IC29                 {
IC30                     ProcessedOrder order = new ProcessedOrder();
IC31                     order.OrderNum = externalOrder.OrderNum;
IC32                     order.Value = Convert.ToDouble(externalOrder.OrderValue);
IC33                     order.VendorID = Convert.ToInt32(externalOrder.VendorId);
IC34                     order.ProcessedDateTime = DateTime.Now;
IC35                     context.ProcessedOrders.Add(order);
IC36                     context.SaveChanges();
IC37                 }
IC38                 qService.DeleteExternalOrder(orderNum);
IC39             }
IC40             return RedirectToAction("GetQueueItems");
IC41         }
IC42
IC43         public ActionResult ViewShippingInfo(int orderNum)
IC44         {
IC45             ShippingServiceClient shipService = new ShippingServiceClient();
IC46             var info = shipService.GetShippingInfo(orderNum);
IC47             return View(info);
IC48         }
IC49     }
IC50 }
```

OrderUpload\IUploadCallbackService.cs

```
IU01 using System.ServiceModel;
IU02
IU03 namespace OrderUpload
IU04 {
IU05     [ServiceContract(CallbackContract = typeof(IUploadCallback))]
IU06     public interface IUploadCallbackService
IU07     {
IU08         [OperationContract]
IU09         void UploadOrder(int orderNum);
IU10     }
IU11
IU12     public interface IUploadCallback
IU13     {
IU14         [OperationContract]
IU15         decimal GetOrderValue(int orderNum);
IU16     }
IU17 }
```

OrderUpload\UploadCallbackService.svc

```
US01 using System.ServiceModel;
US02
US03 namespace OrderUpload
US04 {
US05     public class UploadCallbackService : IUploadCallbackService
US06     {
US07         public void UploadOrder(int orderNum)
US08         {
US09         }
US10     }
US11 }
```

Shipping\IShippingService.cs

```
IS01 using System.Runtime.Serialization;
IS02 using System.ServiceModel;
IS03
IS04 namespace Shipping
IS05 {
IS06     public interface IShippingService
IS07     {
IS08     }
IS09 }
IS10 }
```

Shipping\ShippingAddress.cs

```
SA01 using System.Collections.Generic;
SA02 using System.Data.Objects;
SA03
SA04 namespace Shipping.POCO
SA05 {
SA06     public class ShippingAddress
SA07     {
SA08         public int VendorId { get; set; }
SA09         public string Address { get; set; }
SA10         public string City { get; set; }
SA11         public int StateId { get; set; }
SA12         public string Zip { get; set; }
SA13         public State State { get; set; }
SA14     }
SA15
SA16     public class State
SA17     {
SA18         public int StateId { get; set; }
SA19         public string StateName { get; set; }
SA20         public List<ShippingAddress> ShippingAddresses { get; set; }
SA21     }
SA22 }
```

QUESTION 49

The QueueDetail entity type must inherit from the InboundQueue entity type in the ExternalQueue service project using table-per-type inheritance. You need to modify the entities in the designer. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Remove the OrderNum property in InboundQueue.
- B. Remove the OrderNum property in QueueDetail.
- C. Set the QueueDetail BaseType to InboundQueue.
- D. Remove the association between the entities.
- E. Right-click the entities and validate the table mapping.
- F. Set the InboundQueue BaseType to QueueDetail.

Answer: BCDE

Explanation:

<http://www.robbagby.com/entity-framework/entity-framework-modeling-table-per-type-inheritance/>

QUESTION 50

Drag and Drop Question

The GetVendorPolicy() private method in the ProcessedOrderController controller is returning a CacheltemPolicy object with default values. The returned policy must expire if the external file located at C:\Triggers\VendorTrigger.txt has been modified or the timeout outlined in the technical requirements is reached. You need to return the policy. How should you build the method? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Priority

ChangeMonitors

AbsoluteExpiration

Expiration

DateTime.AddMinutes

DateTime.Now.AddMinutes

Answer Area

```

private CacheItemPolicy GetVendorPolicy()
{
    CacheItemPolicy vendorPolicy = new CacheItemPolicy();

    vendorPolicy.
        = (10);

    vendorPolicy.

    .Add(new HostFileChangeMonitor(GetTriggerPaths()));

    return vendorPolicy;
}
                
```

Answer:

Priority

ChangeMonitors

AbsoluteExpiration

Expiration

DateTime.AddMinutes

DateTime.Now.AddMinutes

Answer Area

```

private CacheItemPolicy GetVendorPolicy()
{
    CacheItemPolicy vendorPolicy = new CacheItemPolicy();

    vendorPolicy. AbsoluteExpiration

    = DateTime.Now.AddMinutes (10);

    vendorPolicy. ChangeMonitors

    .Add(new HostFileChangeMonitor(GetTriggerPaths()));

    return vendorPolicy;
}
                
```

QUESTION 51

The GetExternalOrder() method in the ExternalQueueService service is throwing a runtime error. The method must query the database for a record that matches the orderNum parameter passed to the method. You need to modify the queryString string to retrieve the record. With which code segment should you replace line EQ64?

- ☐ A.

```
string queryString = @"SELECT VALUE q FROM ExternalOrdersEntities.InboundQueues AS q
WHERE q.OrderNum = @orderNum";
```
- ☐ B.

```
string queryString = @"SELECT VALUE * FROM ExternalOrdersEntities.InboundQueues
WHERE OrderNum = @orderNum";
```
- ☐ C.

```
string queryString = @"SELECT q.OrderNum, q.VendorId, q.FilePath, q.OrderValue
FROM ExternalOrdersEntities AS q WHERE q.OrderNum = @orderNum";
```
- ☐ D.

```
string queryString = @"SELECT q FROM ExternalOrdersEntities.InboundQueues
WHERE q.OrderNum = @orderNum";
```

- A. Option A
- B. Option B

- C. Option C
- D. Option D

Answer: A

Explanation:

<http://www.entityframeworktutorial.net/Querying-with-EDM.aspx>

QUESTION 52

Drag and Drop Question

You add a class named ShippingInfo. You need to modify the IShippingService interface and the ShippingInfo class to meet the technical requirements. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Answer Area

```
public interface IShippingService
{
    ShippingInfo GetShippingInfo(int orderNum);
}

public class State
{
    public string StateName { get; set; }
}

public class ShippingInfo : State
{
    public string StreetAddress { get; set; }
    public string ZipCode { get; set; }
}
```

Answer:

[DataMember]

[CollectionDataContract]

[DataContract]

[ServiceContract]

[OperationContract]

Answer Area

[ServiceContract]

```
public interface IShippingService
{
    [OperationContract]
    ShippingInfo GetShippingInfo(int orderNum);
}
```

[DataContract]

```
public class State
{
    [DataMember]
    public string StateName { get; set; }
}
```

[DataContract]

```
public class ShippingInfo : State
{
    [DataMember]
    public string StreetAddress { get; set; }

    [DataMember]
    public string ZipCode { get; set; }
}
```

QUESTION 53

Drag and Drop Question

You need to create the ShippingContext class in the ShippingAddress.es file to meet the requirements. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

ObjectSet

ObjectContext

ObjectResult

LazyLoadingEnabled = true;

LazyLoadingEnabled = false;

Answer Area

```
public class ShippingContext : 
{
    public ShippingContext()
        : base("name=ShippingAddressEntities")
    {
        this.ContextOptions.
    }
    public <ShippingAddress> ShippingAddresses
    {
        get { return CreateObjectSet<ShippingAddress>(); }
    }
    public <State> States
    {
        get { return CreateObjectSet<State>(); }
    }
}
```

Answer:

ObjectSet

ObjectContext

ObjectResult

LazyLoadingEnabled = true;

LazyLoadingEnabled = false;

Answer Area

```
public class ShippingContext : ObjectContext
{
    public ShippingContext()
    : base("name=ShippingAddressEntities")
    {
        this.ContextOptions.LazyLoadingEnabled = true;
    }

    public ObjectSet<ShippingAddress> ShippingAddresses
    {
        get { return CreateObjectSet<ShippingAddress>(); }
    }

    public ObjectSet<State> States
    {
        get { return CreateObjectSet<State>(); }
    }
}
```

QUESTION 54

You need to modify the ExecuteCommandProcedure() method to meet the technical requirements. Which code segment should you use?

- ☐ A.

```
private async Task ExecuteCommandProcedure(EntityCommand command)
{
    using (EntityConnection connection = new EntityConnection
("name=ExternalOrdersEntities"))
    {
        command.Connection = connection;
        await connection.OpenAsync();
        await command.ExecuteNonQueryAsync();
    }
}
```
- ☐ B.

```
private void ExecuteCommandProcedure(EntityCommand command)
{
    using (EntityConnection connection = new EntityConnection
("name=ExternalOrdersEntities"))
    {
        command.Connection = connection;
        command.ExecuteNonQueryAsync();
    }
}
```
- ☐ C.

```
private void ExecuteCommandProcedure(EntityCommand command)
{
    using (EntityConnection connection = new EntityConnection
("name=ExternalOrdersEntities"))
    {
        command.Connection = connection;
        connection.OpenAsync();
        command.ExecuteNonQueryAsync();
    }
}
```
- ☐ D.

```
private async Task ExecuteCommandProcedure(EntityCommand command)
{
    using (EntityConnection connection = new EntityConnection
("name=ExternalOrdersEntities"))
    {
        command.Connection = connection;
        connection.OpenAsync();
        command.ExecuteNonQueryAsync();
    }
}
```

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

QUESTION 55

Drag and Drop Question

You need to complete the GetProcessedOrders() action in the ProcessedOrderController controller to meet the requirements. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

OrderByDescending

OrderBy

Take

ProcessedOrders

ProcessedDateTime

Answer Area

```
public ActionResult GetProcessedOrders()
{
    using (var context = new ProcessedOrders())
    {
        List<Entities.ProcessedOrder> orders =
            context
                .
                .
                .
                .ToList();
        return View(orders);
    }
}
```

Answer:

OrderByDescending

OrderBy

Take

ProcessedOrders

ProcessedDateTime

Answer Area

```
public ActionResult GetProcessedOrders()
{
    using (var context = new ProcessedOrders())
    {
        List<Entities.ProcessedOrder> orders =
            context
                . ProcessedOrders
                . OrderByDescending (i => ProcessedDateTime )
                . Take (10)
                .ToList();
        return View(orders);
    }
}
```

QUESTION 56

Drag and Drop Question

The GetQueueItems() action in the InboundQueueController controller is not populating the view with data. The action must populate the view with data by calling the GetExternalOrders() method in the ExternalQueueService using the ChannelFactory class. You need to modify the action to populate the view with data. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

InboundQueue

IExternalQueueService

BasicHttpBinding

GetExternalOrders

CreateChannel

Answer Area

```
ChannelFactory< > qFactory =  
    new ChannelFactory< >(  
        new < >(),  
        new EndpointAddress(  
            "http://localhost:62965/ExternalQueueService.svc"));  
  
IExternalQueueService qService =  
    qFactory.< >();  
  
IEnumerable< > inboundOrders =  
    qService.GetExternalOrders();  
  
return View(inboundOrders);
```

Answer:

InboundQueue

IExternalQueueService

BasicHttpBinding

GetExternalOrders

CreateChannel

Answer Area

```
ChannelFactory< IExternalQueueService > qFactory =  
    new ChannelFactory< IExternalQueueService >(  
        new BasicHttpBinding(),  
        new EndpointAddress(  
            "http://localhost:62965/ExternalQueueService.svc"));  
  
IExternalQueueService qService =  
    qFactory.CreateChannel();  
  
IEnumerable< InboundQueue > inboundOrders =  
    qService.GetExternalOrders();  
  
return View(inboundOrders);
```

QUESTION 57

The DeleteExternalOrder() method in the ExternalQueueService service is not throwing a FaultException exception as defined by the FaultContractAttribute attribute in the IExternalQueueService.cs file. You need to throw the FaultException exception. Which code segments can you insert at line EQ45 to achieve this goal? (Each correct answer presents a complete solution. Chose all that apply)

- ☐ A. `throw new FaultException<OrderNotFoundException>(ex.ExceptionMessage);`
- ☐ B. `throw new FaultException<OrderNotFoundException>(ex, new
 FaultReason("Order not found."));`
- ☐ C. `throw new FaultException<OrderNotFoundException>(ex);`
- ☐ D. `throw new FaultException
 (new OrderNotFoundException(new Exception(ex.ExceptionMessage)), "Order not
 found.");`

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: BC

QUESTION 58

Drag and Drop Question

The GetExternalOrders() method must use members of the EntityClient namespace to query the database for all records in the InboundQueue entity. You need to modify the GetExternalOrders() method to return the correct data. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

ExecuteReader

ExecuteScalar

SequentialAccess

KeyInfo

ExternalOrders

ExternalOrdersEntities

Answer Area

```
public List<Entities.InboundQueue> GetExternalOrders()
{
    EntityConnection connection =

        new EntityConnection("name= " );

    connection.Open();
    EntityCommand cmd = connection.CreateCommand();
    cmd.CommandText = @"select q.OrderNum, q.VendorId,
        q.FilePath, q.OrderValue

        from .InboundQueues as q";

    EntityDataReader rdr =

        cmd. (CommandBehavior. );

    List<InboundQueue> queueItems = new List<InboundQueue>();
    while (rdr.Read ())
    {
        InboundQueue queueItem = new InboundQueue();
        queueItem.OrderNum = Convert.ToInt32(rdr["OrderNum"]);
        queueItem.VendorId = Convert.ToInt32(rdr["VendorId"]);
        queueItem.FilePath = rdr["FilePath"].ToString();
        queueItem.OrderValue = Convert.ToDecimal(rdr["OrderValue"]);
        queueItems.Add(queueItem);
    }
    rdr.Close ();
    connection.Close ();
    return queueItems;
}
```

Answer:

ExecuteReader

ExecuteScalar

SequentialAccess

KeyInfo

ExternalOrders

ExternalOrdersEntities

Answer Area

```
public List<Entities.InboundQueue> GetExternalOrders()
{
    EntityConnection connection =

        new EntityConnection("name=" ExternalOrdersEntities ");

    connection.Open();
    EntityCommand cmd = connection.CreateCommand();
    cmd.CommandText = @"select q.OrderNum, q.VendorId,
        q.FilePath, q.OrderValue

        from ExternalOrdersEntities.InboundQueues as q";

    EntityDataReader rdr =

        cmd. ExecuteReader (CommandBehavior. SequentialAccess );

    List<InboundQueue> queueItems = new List<InboundQueue>();
    while (rdr.Read ())
    {
        InboundQueue queueItem = new InboundQueue();
        queueItem.OrderNum = Convert.ToInt32(rdr["OrderNum"]);
        queueItem.VendorId = Convert.ToInt32(rdr["VendorId"]);
        queueItem.FilePath = rdr["FilePath"].ToString();
        queueItem.OrderValue = Convert.ToDecimal(rdr["OrderValue"]);
        queueItems.Add(queueItem);
    }
    rdr.Close ();
    connection.Close ();
    return queueItems;
}
```

QUESTION 59

You need to regenerate the service proxies to include task-based asynchronous method signatures. Which command should you use?

- A. `aspnet_regiis.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- B. `svcutil.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- C. `aspnet_compiler.exe /t:code http://localhost:62965/UploadCallbackService.svc`
- D. `aspnet_regiis.exe /t:code http://localhost:62965/UploadService.svc`
- E. `svcutil.exe /t:code http://localhost:62965/UploadService.svc`

Answer: B**Explanation:**

<http://msdn.microsoft.com/en-us/library/aa347733.aspx>

QUESTION 60

The `DeleteExternalOrder()` method in the `ExternalQueueService` service is not throwing a `FaultException` exception as defined by the `FaultContractAttribute` attribute in the `IExternalQueueService.cs` file. You need to throw the `FaultException` exception. Which code segment can you insert at line EQ45 to achieve this goal? (Each correct answer presents a complete solution. Chose all that apply.)

- ☐ A. `string queryString = @"SELECT q.OrderNum, q.VendorId, q.FilePath, q.OrderValue
FROM ExternalOrdersEntities.InboundQueues AS q WHERE q.OrderNum = @orderNum";`
- ☐ B. `string queryString = @"SELECT * FROM ExternalOrdersEntities.InboundQueues
WHERE OrderNum = @orderNum";`
- ☐ C. `string queryString = @"SELECT VALUE q FROM ExternalOrdersEntities.InboundQueues AS q
WHERE q.OrderNum = @orderNum";`
- ☐ D. `string queryString = @"SELECT VALUE FROM ExternalOrdersEntities.InboundQueues
WHERE OrderNum = @orderNum";`

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

QUESTION 61

Drag and Drop Question

You need to modify the `ExecuteCommandProcedure()` method to meet the technical requirements. Which code segment should you use?

| | Answer Area |
|--|---|
| <code>await connection.OpenAsync();</code> | <pre>private async Task ExecuteCommandProcedure(EntityCommand command) { using (EntityConnection connection = new EntityConnection("name=ExternalOrdersEntities")) { command.Connection = connection; [] [] } }</pre> |
| <code>await command.ExecuteNonQueryAsync();</code> | |
| <code>connection.OpenAsync();</code> | |
| <code>command.OpenAsync();</code> | |
| <code>await command.QueryAsync();</code> | |

Answer:

| | Answer Area |
|--|---|
| <code>await connection.OpenAsync();</code> | <pre>private async Task ExecuteCommandProcedure(EntityCommand command) { using (EntityConnection connection = new EntityConnection("name=ExternalOrdersEntities")) { command.Connection = connection; await connection.OpenAsync(); await command.ExecuteNonQueryAsync(); } }</pre> |
| <code>await command.ExecuteNonQueryAsync();</code> | |
| <code>connection.OpenAsync();</code> | |
| <code>command.OpenAsync();</code> | |
| <code>await command.QueryAsync();</code> | |

QUESTION 62

The `GetVendors()` action in the `ProcessedOrderController` controller is querying the database each time it is run. The `GetVendors()` action must query the database only if the cache is null. You need to add code to the action at line PC33 to cache the data. Which code segment can you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. cache.Set(new CachelItem("vendorKey", vendors), GetVendorPolicy());
- B. cache.Add("vendors", vendors, new CachelItemPolicy());
- C. cache.Add(new CachelItem("vendorKey", vendors) , GetVendorPolicy());
- D. cache.AddOrGetExisting("vendorKey", context, new CachelItemPolicy());

Answer: AC

QUESTION 63

Drag and Drop Question

The UploadOrder() method in the UploadCallbackService service is not implementing the callback behavior defined in the IUploadCallBackService interface. You need to modify the class to implement the required callback behavior. What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segments may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Multiple

Single

GetOrderValue

UploadCallbackService

IUploadCallback

Answer Area

```
[ServiceBehavior(ConcurrencyMode =
ConcurrencyMode.
)]

public class UploadCallbackService : IUploadCallbackService
{
    public void UploadOrder(int orderNum)
    {
        callback = OperationContext
        .Current.GetCallbackChannel<
        >();
        decimal value = callback.
        orderNum);

        UploadDB.UploadOrder.Upload(orderNum, value);
    }
}
```

Answer:

Multiple

Single

GetOrderValue

UploadCallbackService

IUploadCallback

Answer Area

```
[ServiceBehavior(ConcurrencyMode =
ConcurrencyMode. Single
)]

public class UploadCallbackService : IUploadCallbackService
{
    public void UploadOrder(int orderNum)
    {
        IUploadCallback callback = OperationContext
        .Current.GetCallbackChannel< IUploadCallback
        >();
        decimal value = callback. GetOrderValue
        orderNum);

        UploadDB.UploadOrder.Upload(orderNum, value);
    }
}
```

Case Study 3 - Online Bookstore (QUESTION 64 - QUESTION 78)

Background

You are developing an online bookstore web application that will be used by your company's customers.

Technical Requirements

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General requirements:

- The web store application must be an ASP.NET MVC application written in Visual Studio.

- The application must connect to a Microsoft SQL database.

- The GetTop100Books() method is mission critical and must return data as quickly as possible.

It should take advantage of fast, forward-only, read-only methods of reading data.

- The ImportBooks() method must keep a copy of the data that can be accessed while new books are being imported without blocking reads.

- The Create MonthlyTotalsReport() method must lock the data and prevent others from updating or inserting new rows until complete.

- The college textbook area of the web application must get data from a daily updated CSV file.

- The children's book area of the web application must get data directly from a local database.

It must use a connection string. It must also support access to the stored procedures on the database. Further, it is required to have strongly typed objects. Finally, it will require access to databases from multiple vendors and needs to support more than one-to-one mapping of database tables.

- The cookbook functionality is contained within a client-side application that must connect to the server using HTTP and requires access to the data using JavaScript.

- The BookApiController class must have a method that is able to perform ad-hoc queries using OData.

The RESTful API of the bookstore must expose the following endpoints.

Action: Get a list of all books

HTTP method: GET

Relative URI: /books

Action: Get a book by id

HTTP method: GET

Relative URI: /books/id

Action: Create a new book

HTTP method: POST

Relative URI: /books

Action: Update a book

HTTP method: PUT

Relative URI: /books/id

Action: Delete a book

HTTP method: DELETE

Relative URI: /books/id

Application Structure


```
public class Book
{
    public int Id { get; set; }
    public string Name { get; set; }
    public string Title { get; set; }
    public decimal Price { get; set; }
    public DateTime PublishDate { get; set; }
    public int Sales { get; set; }
    public static void SaveFeaturedBooks(IEnumerable<Book> books, string file)
    {
        ...
    }
}

public class BookApiController : ApiController
{
    private readonly IBookRepository bookRepository;
    public BookApiController(IBookRepository bookRepository)
    {
        this.bookRepository = bookRepository;
    }
    public List<Book> Get(int id)
    {
        var book = bookRepository.Find(id);
        if (book == null)
        {
            throw new HttpResponseException(HttpStatusCode.NotFound);
        }
        return new List<Book> { book };
    }
    public HttpResponseMessage Post(Book value)
    {
        if (ModelState.IsValid)
        {
            bookRepository.InsertOrUpdate(value);
            bookRepository.Save();
            var response = new HttpResponseMessage(HttpStatusCode.Created);
            string uri = Url.Route(null, new { id = value.Id });
            response.Headers.Location = new Uri(Request.RequestUri, uri);
            return response;
        }
        throw new HttpResponseException(HttpStatusCode.BadRequest);
    }
    public HttpResponseMessage Put(int id, Book value)
    {

```

```
{
    if (ModelState.IsValid)
    {
        bookRepository.InsertOrUpdate(value);
        bookRepository.Save();
        return new HttpResponseMessage(HttpStatusCode.NoContent);
    }
    throw new HttpResponseException(HttpStatusCode.BadRequest);
}
public void Delete(int id)
{
    var book = bookRepository.Find(id);
    if (book == null)
    {
        throw new HttpResponseException(HttpStatusCode.NotFound);
    }
    bookRepository.Delete(id);
}
}

...

private static void ImportBooks()
{
    using (SqlConnection connection = new SqlConnection(_connectionString))
    {
        connection.Open();
        SqlCommand command = connection.CreateCommand();
        SqlTransaction transaction = connection.BeginTransaction();
        command.Connection = connection;
        command.Transaction = transaction;
        try
        {
            command.CommandText = _commandText;
            command.ExecuteNonQuery();
            transaction.Commit();
        }
        catch (Exception ex)
        {
            transaction.Rollback();
        }
    }
}

private static void CreateMonthlyTotalsReports()
{
    using (SqlConnection connection = new SqlConnection(_connectionString))
    {
        connection.Open();
        SqlCommand command = connection.CreateCommand();
        SqlTransaction transaction = connection.BeginTransaction();
        command.Connection = connection;
        command.Transaction = transaction;
        try
        {
            command.CommandText = _reportCommandText;
            command.ExecuteNonQuery();
            transaction.Commit();
        }
        catch (Exception ex)
        {
            transaction.Rollback();
        }
    }
}
```

PurchaseOrders.xml

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```
<?xml version="1.0"?>
<aw:PurchaseOrder
  aw:PurchaseOrderNumber="99503"
  aw:OrderDate="1999-10-20"
  xmlns:aw="http://www.adventure-works.com">
  <aw:Address aw:Type="Shipping">
    <aw:Name>Ellen Adams</aw:Name>
    <aw:Street>123 Maple Street</aw:Street>
    <aw:City>Mill Valley</aw:City>
    <aw:State>CA</aw:State>
    <aw:Zip>10999</aw:Zip>
    <aw:Country>USA</aw:Country>
  </aw:Address>
  <aw:Address aw:Type="Billing">
    <aw:Name>Tai Yee</aw:Name>
    <aw:Street>8 Oak Avenue</aw:Street>
    <aw:City>Old Town</aw:City>
    <aw:State>PA</aw:State>
    <aw:Zip>95819</aw:Zip>
    <aw:Country>USA</aw:Country>
  </aw:Address>
  <aw:DeliveryNotes>Please leave packages in shed by driveway.</aw:DeliveryNotes>
  <aw:Items>
    <aw:Item aw:PartNumber="872-AA">
      <aw:ProductName>Lawnmower</aw:ProductName>
      <aw:Quantity>1</aw:Quantity>
      <aw:USPrice>148.95</aw:USPrice>
      <aw:Comment>Confirm this is electric</aw:Comment>
    </aw:Item>
    <aw:Item aw:PartNumber="926-AA">
      <aw:ProductName>Baby Monitor</aw:ProductName>
      <aw:Quantity>2</aw:Quantity>
      <aw:USPrice>39.98</aw:USPrice>
      <aw:ShipDate>1999-05-21</aw:ShipDate>
    </aw:Item>
  </aw:Items>
</aw:PurchaseOrder>
```

FeaturedBooks.xml

```
<?xml version="1.0" encoding="utf-8" ?>
<featured>
  <book>
    <id>1</id>
    <title>Science</title>
  </book>
  <book>
    <id>1</id>
    <title>Math</title>
  </book>
  <book>
    <id>1</id>
    <title>History</title>
  </book>
</featured>
```

QUESTION 64

You need to choose the appropriate data access technology for the children's book area of the web application. Which data access technology should you choose?

- A. Web Service
- B. LINQ to SQL
- C. ADO.NET Entity Framework
- D. WCF Data Services

Answer: C

QUESTION 65

You need to update the CreateMonthlyTotalsReports() method to use database transactions. Which code segment should you use?

- A. SqlConnection.BeginTransaction(IsolationLevel.ReadCommitted);
- B. SqlConnection.BeginTransaction(IsolationLevel.ReadUnconwited);
- C. SqlConnection.BeginTransaction(IsolationLevel.Chaos);
- D. SqlConnection.BeginTransaction(IsolationLevel.Serializable);

Answer: D

Explanation:

* Scenario: The Create MonthlyTotalsReport() method must lock the data and prevent others from updating or inserting new rows until complete.

* Serializable: A range lock is placed on the DataSet, preventing other users from updating or inserting rows into the dataset until the transaction is complete.

QUESTION 66

The PurchaseOrders.xml file contains all of the purchase orders for the day. You need to query the XML file for all of the shipping addresses. Which code segment should you use?

- ☐ A.

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Items")
    where (string)el.Attribute(aw + "Type") == "Billing"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- ☐ B.

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Address")
    where (string)el.Attribute(aw + "Type") == "Shipping"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- ☐ C.

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Address")
    where (string)el.Attribute(aw + "Type") == "Billing"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- ☐ D.

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Items")
    where (string)el.Attribute(aw + "Type") == "Shipping"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

QUESTION 67

Drag and Drop Question

An XML file must be produced by the SaveFeaturedBooks() method of the Book class. The schema of the resulting XML file must be identical to the FeaturedBooks.xml file. You need to write the code to produce the file. You have the following code:


```
XDocument document = new XDocument ();
XElement root = new XElement ("Target 1");
foreach (var book in books)
{
    XElement bookElement = new XElement ("book");
    bookElement.Add(new XElement ("id", book.Id) );
    bookElement.Add(new XElement ("Target 2", book.Title));
    root.Add (bookElement);
}
document.Add (root);
document.Save (Target 3);
```

Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code?
(To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content)

| Code Segments | Answer Area |
|---------------------|---------------------------|
| <div>featured</div> | Target 1: <div>Code</div> |
| <div>books</div> | Target 2: <div>Code</div> |
| <div>title</div> | Target 3: <div>Code</div> |
| <div>name</div> | |
| <div>file</div> | |
| <div>output</div> | |

Answer:

| Code Segments | Answer Area |
|---------------------|-------------------------------|
| <div>featured</div> | Target 1: <div>featured</div> |
| <div>books</div> | Target 2: <div>title</div> |
| <div>title</div> | Target 3: <div>file</div> |
| <div>name</div> | |
| <div>file</div> | |
| <div>output</div> | |

QUESTION 68

You need to choose the appropriate data access strategy for the college textbook area of the web

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application. Which data access technology should you implement?

- A. ADO.NET
- B. Entity Data Model (EDM)
- C. WCF Data Services
- D. LINQ to SQL

Answer: A

Explanation:

* Scenario: The college textbook area of the web application must get data from a daily updated CSV file.

* ADO.NET reads the CSV file in a very similar way as table in database.

QUESTION 69

You need to configure the server to self-host the bookstore's Web API application. Which code segment should you use?

- ☐ A.

```
var config = new HttpSelfHostConfiguration(_baseAddress);
config.Filters.Add(
    name: "DefaultApi",
    routeTemplate: "api/{controller}/{id}",
    defaults: new { id = RouteParameter.Optional }
);
var server = new HttpSelfHostServer(config);
server.Wait().OpenAsync();
```
- ☐ B.

```
var config = new HttpSelfHostConfiguration(_baseAddress);
config.Routes.MapHttpRoute(
    name: "DefaultApi",
    routeTemplate: "{controller}s/{id}",
    defaults: new { id = RouteParameter.Optional }
);
var server = new HttpSelfHostServer(config);
server.OpenAsync().Wait();
```
- ☐ C.

```
var config = new HttpSelfHostConfiguration(_baseAddress);
config.Routes.MapHttpRoute(
    name: "DefaultApi",
    routeTemplate: "api/{controller}s/{id}",
    defaults: new { id = RouteParameter.Optional }
);
var server = new HttpSelfHostServer(config);
server.OpenAsync().Wait();
```
- ☐ D.

```
var config = new HttpSelfHostConfiguration(_baseAddress);
config.Routes.MapHttpRoute(
    name: "DefaultApi",
    routeTemplate: "{controller}/{id}",
    defaults: new { id = RouteParameter.Optional }
);
var server = new HttpSelfHostServer(config);
server.Wait().OpenAsync();
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

Explanation:

MapHttpRequest Method: Maps the specified route template. Use the option with "api/..."

QUESTION 70

You need to return the list of the top 100 books for the GetTopBooks() method. Which type should you use to retrieve the data?

- A. SqlDataReader
- B. DataSet
- C. DataTable
- D. Data View

Answer: A

QUESTION 71

You need to choose the appropriate data access technology for the cookbook area of the web application. Which data access technology should you choose?

- A. WCF Data Services
- B. LINQ to SQL
- C. Entity Framework
- D. ADO.NET

Answer: A

Explanation:

* Scenario: The cookbook functionality is contained within a client-side application that must connect to the server using HTTP and requires access to the data using JavaScript.

* WCF Data Services (formerly known as "ADO.NET Data Services") is a component of the .NET Framework that enables you to create services that use the Open Data Protocol (OData) to expose and consume data over the Web or intranet by using the semantics of representational state transfer (REST). OData exposes data as resources that are addressable by URIs. Data is accessed and changed by using standard HTTP verbs of GET, PUT, POST, and DELETE

* WCF Data Services uses the OData protocol for addressing and updating resources. In this way, you can access these services from any client that supports OData. OData enables you to request and write data to resources by using well-known transfer formats.

* Atom, a set of standards for exchanging and updating data as XML, and JavaScript Object Notation (JSON), a text-based data exchange format used extensively in AJAX application.

QUESTION 72

You are preparing to write the data access code for the children's book area of the web site. You need to review the requirements and identify the appropriate data access technology. What should you do?

- A. Use ADO.NET Entity Framework.
- B. Use a Web Service.
- C. Use the WCF Data Services.
- D. Use LINQ to SQL.

Answer: A

QUESTION 73

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The PurchaseOrders.xml file contains all of the purchase orders for the day. You need to query the XML file for all of the billing addresses. Which code segment should you use?

- ☐ A.

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Items")
    where (string)el.Attribute(aw + "Type") == "Shipping"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- ☐ B.

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Address")
    where (string)el.Attribute(aw + "Type") == "Shipping"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- ☐ C.

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Items")
    where (string)el.Attribute(aw + "Type") == "Billing"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```
- ☐ D.

```
XElement root = XElement.Load("PurchaseOrders.xml");
XNamespace aw = "http://www.adventure-works.com";
IEnumerable<XElement> address =
    from el in root.Elements(aw + "Address")
    where (string)el.Attribute(aw + "Type") == "Billing"
    select el;
foreach (XElement element in address)
{
    Console.WriteLine(element);
}
```

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

QUESTION 74

You need to create an OData filter expression that returns books that match the following characteristics:

- Published after 1/1/2000

- Have "Science" as the first word
Which filter statement should you use?

- ☐ A. `/books?$filter=PublishDate greaterthan datetime'2000-1-1' and startswith(Title, 'Science')`
- ☐ B. `/search?$filter=PublishDate greaterthan datetime'2000-1-1' and beginswith (Title, 'Science')`
- ☐ C. `/search?$filter=PublishDate gt datetime'2000-1-1' and beginswith(Title, 'Science')`
- ☐ D. `/books?$filter=PublishDate gt datetime'2000-1-1' and startswith(Title, 'Science')`

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

Explanation:

* gt: Greater than.

Example:

`filter=Entry_No gt 610`

Query on GLEntry service. Returns entry numbers 611 and higher.

* startswith

Example:

`filter=startswith(Name, 'S')`

Query on Customer service. Returns all customers names beginning with "S".

QUESTION 75

You need to update the ImportBooks() method to use database transactions. Which code segment should you use?

- A. `SqlConnection.BeginTransaction(IsolationLevel.RepeatableRead);`
- B. `SqlConnection.BeginTransaction(IsolationLevel.ReadUncommitted);`
- C. `SqlConnection.BeginTransaction(IsolationLevel.Serializable);`
- D. `SqlConnection.BeginTransaction(IsolationLevel.Snapshot);`

Answer: B

Explanation:

* Scenario: The ImportBooks() method must keep a copy of the data that can be accessed while new books are being imported without blocking reads.

* ReadUncommitted: A dirty read is possible, meaning that no shared locks are issued and no exclusive locks are honored.

QUESTION 76

You need to implement the Get() method in the bookstore Web API application to be able to find books by using an ad hoc query. Which method should you use?

- ☐ A.

```
public Book Get(int id)
{
    var book = bookRepository.Find(id);
    if (book == null)
    {
        throw new HttpResponseMessage(HttpStatusCode.NotFound);
    }
    return new List<Book> { book };
}
```
- ☐ B.

```
public List<Book> Get(int id)
{
    var book = bookRepository.Find(id);
    if (book == null)
    {
        throw new HttpResponseMessage(HttpStatusCode.NotFound);
    }
    return new List<Book> { book };
}
```
- ☐ C.

```
public IEnumerable<Book> Get()
{
    return bookRepository.All;
}
```
- ☐ D.

```
public IQueryable<Book> Get()
{
    return bookRepository.All;
}
```

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

QUESTION 77

Drag and Drop Question

You need to update the GetBook() method to retrieve book data by using ADO.NET. You have the following code:

```
public Book GetBook(int id)
{
    using (var conn = new SqlConnection(_connectionString))
    using (var cmd = conn.CreateCommand())
    { Target 1
    cmd.CommandText = Target 2
    Target 3
    using (var reader = cmd.ExecuteReader ())
    {
        if (!reader.Read())
        {
            return null;
        }
        return new Book
        { Target 4
        Name = Target 5
        };
    }
    }
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Code Segments

conn.Open();

conn.Read();

"SELECT id, name FROM Books WHERE id = @id";

"SELECT id, name FROM Books WHERE id = id";

cmd.Parameters.AddWithValue("@id", id);

cmd.Parameters.AddWithValue("@id", "id");

Id = reader.GetInt32(reader.GetOrdinal("id"));

Id = reader.GetGuid(reader.GetOrdinal(@id));

reader.GetString(reader.GetOrdinal("name"))

reader.GetString(reader.GetOrdinal(@name))

Answer Area

Target 1:

Code Segment

Target 2:

Code Segment

Target 3:

Code Segment

Target 4:

Code Segment

Target 5:

Code Segment

Answer:

Code Segments

```
conn.Open();
conn.Read();
"SELECT id, name FROM Books WHERE id = @id";
"SELECT id, name FROM Books WHERE id = id";
cmd.Parameters.AddWithValue("@id", id);
cmd.Parameters.AddWithValue("@id", "id");
Id = reader.GetInt32(reader.GetOrdinal("id"));
Id = reader.GetGuid(reader.GetOrdinal(@id));
reader.GetString(reader.GetOrdinal("name"))
reader.GetString(reader.GetOrdinal(@name))
```

Answer Area

Target 1:

conn.Open();

Target 2:

"SELECT id, name FROM Books WHERE id = id";

Target 3:

cmd.Parameters.AddWithValue("@id", id);

Target 4:

Id = reader.GetGuid(reader.GetOrdinal(@id));

Target 5:

reader.GetString(reader.GetOrdinal(@name))

QUESTION 78

You need to create an OData query expression to return the ten books with the largest number of sales. Which query expression should you use?

- A. /books?\$orderby=sales desc&\$count=10
- B. /search?\$orderby=sales asc&\$count=10
- C. /books?\$orderby=sales desc&\$top=10
- D. /search?\$orderby=sales asc&\$top=10

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

Explanation:

Order by desc(ending) to get the posts with the largest number of sales at the top. Specify to display the top 10 posts.

QUESTION 79

Drag and Drop Question

You are developing an ASP.NET MVC Web API application. The methods of the Web API must return details about the result of the operation. You need to create methods to update and delete products. You have the following code:

```
public void PutProduct (int id, Product contact)
{
    contact.Id = id;
    if (!repository.Update(contact))
    {
        throw new Target 1 (
            new Target 2 (
                HttpStatusCode. Target 3 ));
    }
}
public HttpResponseMessage DeleteProduct (int id)
{
    repository.Remove (id);
    return new Target 4 (
        HttpStatusCode. Target 5 );
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Code Segments | Answer Area |
|--|---|
| <input type="text" value="HttpResponseException"/> | Target 1: <input type="text" value="Code Segment"/> |
| <input type="text" value="HttpResponseMessage"/> | Target 2: <input type="text" value="Code Segment"/> |
| <input type="text" value="NotFound"/> | Target 3: <input type="text" value="Code Segment"/> |
| <input type="text" value="NoContent"/> | Target 4: <input type="text" value="Code Segment"/> |
| | Target 5: <input type="text" value="Code Segment"/> |

Answer:

| Code Segments | Answer Area |
|--|--|
| <input type="text" value="HttpResponseException"/> | Target 1: <input type="text" value="HttpResponseException"/> |
| <input type="text" value="HttpResponseMessage"/> | Target 2: <input type="text" value="HttpResponseMessage"/> |
| <input type="text" value="NotFound"/> | Target 3: <input type="text" value="NotFound"/> |
| <input type="text" value="NoContent"/> | Target 4: <input type="text" value="HttpResponseMessage"/> |
| | Target 5: <input type="text" value="NoContent"/> |

QUESTION 80

Hotspot Question

You are developing an application. The application must be deployed from Team Foundation Server after a successful build is completed. The Process tab of the Build Definition screen is shown in the exhibit.

1. Required

Items to Build

2. Basic

Automated Tests

Build Number Format

Clean Workspace

Logging Verbosity

Perform Code Analysis

Source And Symbol Server Settings

3. Advanced

Agent Settings

Analyze Test Impact

Associate Changesets and Work Items

Create Work Item on Failure

Disable Tests

Get Version

Analyze Test Impact

Associate Changesets and Work Items

Create Work Item on Failure

Disable Tests

Get Version

Label Sources

MSBuild Arguments

MSBuild Multi-Proc

MSBuild Platform

Private Drop Location

Solution Specific Build Outputs

You need to configure the automated deployment. In which section should you define the parameters for the automated deployment? (To answer, select the appropriate section in the answer area.)

Answer Area

1. Required

Items to Build

...

3. Advanced

...

MSBuild Arguments

MSBuild Multi-Proc

MSBuild Platform

Private Drop Location

Solution Specific Build Outputs

Answer:

Answer Area

1. Required

Items to Build

...

3. Advanced

...

MSBuild Arguments

MSBuild Multi-Proc

MSBuild Platform

Private Drop Location

Solution Specific Build Outputs

QUESTION 81

Drag and Drop Question

You are developing an ASP.NET Web API for a home inventory management system. You need to limit access to users with IP addresses based only in the United States. You have the following code:

```
public class HomeInventoryAuthorization: Target 1
{
    public override void OnAuthorization (Target 2 context)
    {
        var isUSIP = IP.IsUSIPAddress (context);
    }
}
```

Which code segments should you include in Target 1 and Target 2 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Code Segments | Answer Area |
|------------------------------|------------------------|
| HttpActionContext | Target 1: Code Segment |
| AuthorizeAttribute | Target 2: Code Segment |
| AuthorizationFilterAttribute | |
| AuthorizationContext | |
| CountryContext | |

Answer:

| Code Segments | Answer Area |
|---|---|
| <div>HttpContext</div> | Target 1: <div>AuthorizeAttribute</div> |
| <div>AuthorizeAttribute</div> | Target 2: <div>HttpContext</div> |
| <div>AuthorizationFilterAttribute</div> | |
| <div>AuthorizationContext</div> | |
| <div>CountryContext</div> | |

QUESTION 82

Drag and Drop Question

You are developing an Internet-based ASP.NET Web API application that manages pet data. You install an SSL certificate on the web server to encrypt calls to the API. You create a class named PetAuthorization, which inherits from a type named AuthorizeAttribute, and implements the OnAuthorization() method. You need to implement basic authentication for the API. What should you do? (To answer, drag the appropriate words to the correct targets in the answer area. Words may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content)

| Words | Answer Area |
|-------------------------------|--|
| <div>Forms</div> | Set the authentication mode in the web.config file to |
| <div>None</div> | <div>Word</div> , then apply the <div>Word</div> |
| <div>Windows</div> | attribute to the controller. Finally, add code to the AuthorizeAttribute to return a |
| <div>Authorize</div> | <div>Word</div> header in the case of a failed authentication. |
| <div>PetAuthorization</div> | |
| <div>SecurityPermission</div> | |
| <div>WWW-Authenticate</div> | |
| <div>Authorization</div> | |
| <div>Proxy-Authenticate</div> | |
| <div>Allow</div> | |

Answer:

| Words | Answer Area |
|--|---|
| <div>Forms</div> <div>None</div> <div>Windows</div> <div>Authorize</div> <div>PetAuthorization</div> <div>SecurityPermission</div> <div>WWW-Authenticate</div> <div>Authorization</div> <div>Proxy-Authenticate</div> <div>Allow</div> | <p>Set the authentication mode in the web.config file to</p> <div>None</div> , then apply the <div>PetAuthorization</div> attribute to the controller. Finally, add code to the AuthorizeAttribute to return a <div>WWW-Authenticate</div> header in the case of a failed authentication. |

QUESTION 83

You are developing an ASP.NET MVC application. The application is an order processing system that uses the ADO.NET Entity Framework against a SQL Server database. It has a controller that loads a page that displays customers. Customers are filtered on Country and, if provided, on CompanyName. You have an Entity Framework context named db. The Customer class is shown below.

```
public partial class Customer
{
    ...
    public string CustomerID { get; set; }
    public string CompanyName { get; set; }
    public string ContactName { get; set; }
    public string Country { get; set; }
    ...
}
```

You need to execute a single deferred query to return the filtered list of customers. Which code segment should you use?

- ☐ A.

```
public ActionResult Index(string country, string CompanyName)
{
    IEnumerable<Customer> customers;
    IQueryable<Customer> query = db.Customers.Where(c => c.Country == country);
    if (!string.IsNullOrEmpty(CompanyName))
    {
        customers = query.Where(c => c.CompanyName.ToLower().StartsWith(CompanyName.ToLower()));
    }
    return View(customers);
}
```
- ☐ B.

```
public ActionResult Index(string country, string CompanyName)
{
    IEnumerable<Customer> customers;
    IEnumerable<Customer> query = db.Customers.Where(c => c.Country == country);
    if (!string.IsNullOrEmpty(CompanyName))
    {
        customers = query.Where(c => c.CompanyName.ToLower().StartsWith(CompanyName.ToLower()));
    }
    return View(customers);
}
```
- ☐ C.

```
public ActionResult Index(string country, string CompanyName)
{
    IEnumerable<Customer> customers;
    IQueryable<Customer> query = db.Customers.Where(c => c.Country == country);
    query.Load();
    if (!string.IsNullOrEmpty(CompanyName))
    {
        customers = query.Where(c => c.CompanyName.ToLower().StartsWith(CompanyName.ToLower()));
    }
    return View(customers);
}
```
- ☐ D.

```
public ActionResult Index(string country, string CompanyName)
{
    IEnumerable<Customer> customers;
    IQueryable<Customer> query = db.Customers;
    query.Load();
    query = query.Where(c => c.Country == country);
    if (!string.IsNullOrEmpty(CompanyName))
    {
        customers = query.Where(c => c.CompanyName.ToLower().StartsWith(CompanyName.ToLower()));
    }
    return View(customers);
}
```

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

QUESTION 84

Drag and Drop Question

You are developing a self-hosted WCF service to display data about books. The solution contains a service named BookService that implements the IBookService interface. You need to expose the metadata in the service host programmatically. You have the following code:

```
static void Main(string[] args)
{
    Target 1 host = new Target 2 (
        typeof(BookService), new Uri(ServiceUrl));
    host.AddServiceEndpoint(
        typeof(IBookService), new WSHttpBinding(), "");
    Target 3 behavior =
        new Target 4 ();
    behavior.HttpGetEnabled = Target 5 ;
    host.Description.Behaviors.Add(behavior);
    host.Open();
    ...
    host.Close();
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to build the service host? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Code Segments | Answer Area |
|-------------------------|------------------------|
| true | Target 1: Code Segment |
| false | Target 2: Code Segment |
| ServiceMetadataBehavior | Target 3: Code Segment |
| ClientViaBehavior | Target 4: Code Segment |
| ServiceHost | Target 5: Code Segment |

Answer:

| Code Segments | Answer Area |
|-------------------------|-----------------------------------|
| true | Target 1: ServiceHost |
| false | Target 2: ServiceHost |
| ServiceMetadataBehavior | Target 3: ServiceMetadataBehavior |
| ClientViaBehavior | Target 4: ServiceMetadataBehavior |
| ServiceHost | Target 5: true |

QUESTION 85

You are developing an ASP.NET MVC application. The application is a loan processing system that uses the ADO.NET Entity Framework against a SQL Server database. It has a controller that loads a page that displays all loans along with rate information. Lazy loading has been disabled. The Loan class is shown below.

```
public partial class Loan
{
    ...
    public string RateID { get; set; }
    ...
    public virtual Rate Rate { get; set; }
}
```

You need to return the loans and rate information in a single round trip to the database. Which code segment should you use?

- ☐ A.

```
public ActionResult Index()
{
    IQueryable<Loan> loans = db.Loans;
    return View(loans.ToList());
}
```
- ☐ B.

```
public ActionResult Index()
{
    IQueryable<Loan> loans = db.Loans;
    loans = loans.Include("Rate");
    return View(loans.ToList());
}
```
- ☐ C.

```
public ActionResult Index()
{
    IQueryable<Loan> loans = db.Loans.Include("Loan.Rate");
    return View(loans.ToList());
}
```
- ☐ D.

```
public ActionResult Index()
{
    IQueryable<Loan> loans = db.Loans;
    loans.Select(o => o.Rate).Load();
    return View(loans.ToList());
}
```

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

QUESTION 86

You are developing a library management application that uses the ADO.NET Entity Framework against a SQL Server database. The application has a method that returns check outs filtered by date. The Book class is shown below.

```
public partial class Book
{
    ...
    public Nullable<System.DateTime> CheckoutDate { get; set; }
    ...
}
```

You must filter the data on the SQL server before it is returned to the application server. You need to return books checked out more recently than the entered date. Which code segment should you use?

- ☐ A. `IQueryable<Book> books = db.Books;`
`books = books.Where(b => b.CheckoutDate >= date);`
- ☐ B. `IEnumerable<Book> books = db.Books.ToList().AsQueryable();`
`books = books.Where(b => b.CheckoutDate >= date);`
- ☐ C. `IQueryable<Book> books = db.Books.ToList().AsQueryable();`
`books = books.Where(b => b.CheckoutDate >= date);`
- ☐ D. `IEnumerable<Book> books = db.Books;`
`books = books.Where(b => b.CheckoutDate >= date);`

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

Explanation:

The difference is that `IQueryable<T>` is the interface that allows LINQ-to-SQL (LINQ.-to- anything really) to work. So if you further refine your query on an `IQueryable<T>`, that query will be executed in the database, if possible. For the `IEnumerable<T>` case, it will be LINQ-to-object, meaning that all objects matching the original query will have to be loaded into memory from the database.

QUESTION 87

Hotspot Question

You are developing an ASP.NET MVC application. It is ready for deployment to the production web server. A local SQL Express .MDF file was used by the application during development. The deployment has the following requirements:

- The deployment must merge the assemblies on the local machine with those on the host.
- The deployment must publish the local database to the remote Microsoft SQL server.

You need to configure the web package settings for deployment. Which settings should you use? (To answer, select the appropriate setting or settings in the answer area.)

Package/Publish enables you to deploy your Web application to Web servers.

[Learn more about Package/Publish Web](#)

Items to deploy (applies to all deployment methods)

Only files needed to run this application
All files in this project
All files in this project folder

- ☐ Exclude generated debug symbols
☐ Exclude files from the App_Data folder
☐ Precompile this application before publishing

Items to deploy (applies to Web Deploy only)

- ☐ Include all databases configured in Package/Publish SQL tab [Open Settings](#)
☐ Include IIS settings as configured in IIS Express
☐ Include application pool settings used by this Web project

Answer:

Package/Publish enables you to deploy your Web application to Web servers.

[Learn more about Package/Publish Web](#)

Items to deploy (applies to all deployment methods)

Only files needed to run this application
All files in this project
All files in this project folder

- ☒ Exclude generated debug symbols
☒ Exclude files from the App_Data folder
☒ Precompile this application before publishing

Items to deploy (applies to Web Deploy only)

- ☐ Include all databases configured in Package/Publish SQL tab [Open Settings](#)
☐ Include IIS settings as configured in IIS Express
☐ Include application pool settings used by this Web project

QUESTION 88

You are developing a Microsoft Azure web application. The application will be deployed to 10 web role instances. A minimum of 8 running instances is needed to meet scaling requirements. You need to configure the application so that upgrades are performed as quickly as possible, but do not violate scaling requirements. How many upgrade domains should you use?

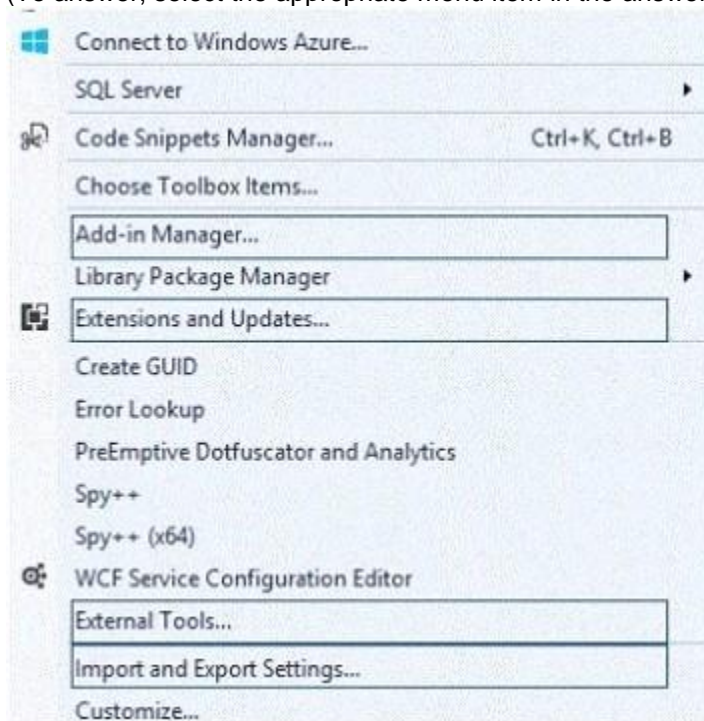
- A. 1
- B. 2
- C. 5
- D. 10

Answer: C

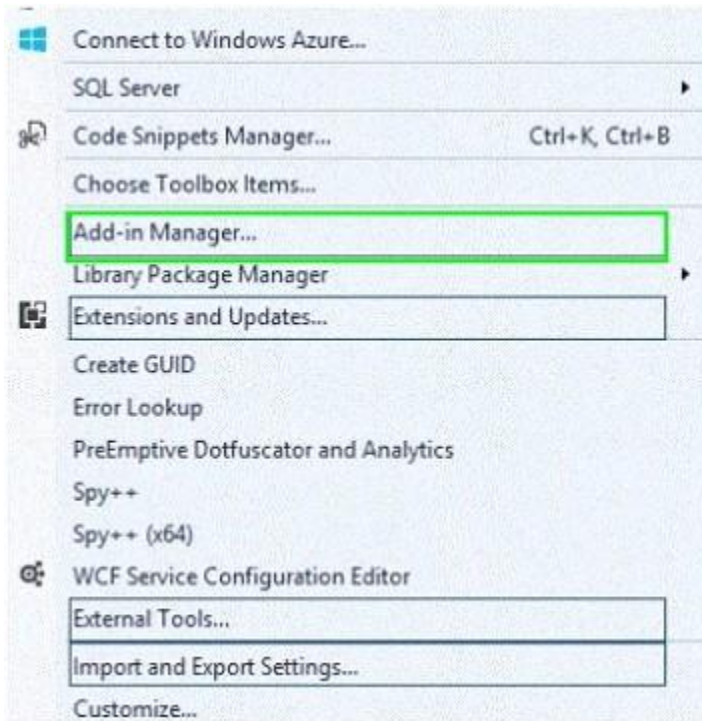
QUESTION 89

Hotspot Question

You are supporting an application that uses the ADO.NET Entity Framework to query and access data. The latest version of a tool will add new templates and wizards that will enhance developer productivity. You need to update the tool. Which Visual Studio 2012 menu item should you choose? (To answer, select the appropriate menu item in the answer area.)



Answer:



QUESTION 90

You are developing an ASP.NET MVC application that displays a report. The report includes large images that are stored in a database. Members of the EntityClient namespace are used to access the database through the ADO.NET Entity Framework data model. You need to prevent memory exceptions while generating a report using the EntityDataReader type. Which CommandBehavior type should you use?

- A. FastForwardReadOnly
- B. SequentialAccess
- C. SingleResult
- D. SingleRow

Answer: B

Explanation:

SequentialAccess: Provides a way for the DataReader to handle rows that contain columns with large binary values. Rather than loading the entire row, SequentialAccess enables the DataReader to load data as a stream.

QUESTION 91

You are developing an ASP.NET MVC application. The application has a page that searches for and displays an image stored in a database. Members of the EntityClient namespace are used to access an ADO.NET Entity Framework data model. Images and associated metadata are stored in a database table. You need to run a query that returns only the image while minimizing the amount of data that is transmitted. Which method of the EntityCommand type should you use?

- A. ExecuteScalar
- B. ExecuteDbDataReader
- C. ExecuteReader
- D. ExecuteNonQuery

Answer: A

Explanation:

ExecuteScalar: Executes the command, and returns the first column of the first row in the result set. Additional columns or rows are ignored.

QUESTION 92

You are developing an order processing application that uses the ADO.NET Entity Framework against a SQL Server database. Lazy loading has been disabled. The application displays orders and their associated order details. Order details are filtered based on the category of the product in each order. The Order class is shown below.

```
public partial class Order
{
    ...
    public int OrderID { get; set; }
    ...
    public virtual ICollection<OrderDetail> OrderDetails { get; set; }
    ...
}
```

The OrderDetail class is shown below.

```
public partial class OrderDetail
{
    [Key, Column(Order = 1)]
    public int OrderID { get; set; }
    [Key, Column(Order = 2)]
    public int ProductID { get; set; }
    ...
    public virtual Order Order { get; set; }
    public virtual Product Product { get; set; }
}
```

The Product class is shown below.

```
public partial class Product
{
    ...
    public int ProductID { get; set; }
    public string ProductName { get; set; }
    ...
    public Nullable<int> CategoryID { get; set; }
    ...
    public virtual Category Category { get; set; }
    ...
}
```

The Category class is shown below.

The **Category** class is shown below.

```
public partial class Category
{
    ...
    public int CategoryID { get; set; }
    public string CategoryName { get; set; }
    ...
    public virtual ICollection<Product> Products { get; set; }
}
```

You need to return orders with their filtered list of order details included in a single round trip to the database. Which code segment should you use?

- ☐ A. `var orders = db.Orders.SelectMany(o => o.OrderDetails.
Where(od => od.Product.Category.CategoryName == categoryName)).
Select(od => new { order = od.Order, detail = od }).
Select(r => r.order);`
- ☐ B. `var orders = db.Orders.SelectMany(o => o.OrderDetails.
Where(od => od.Product.Category.CategoryName == categoryName)).
Select(od => new { order = od.Order, detail = od }).ToList().
Select(r => r.order);`
- ☐ C. `var orderDetails = db.Orders.SelectMany(o => o.OrderDetails.
Where(od => od.Product.Category.CategoryName == categoryName)).ToList();
List<int> orderIDs = orderDetails.Select(od => od.OrderID).ToList();
var orders = db.Orders.Where(o => orderIDs.Contains(o.OrderID));`
- ☐ D. `var orderDetails = db.Orders.SelectMany(o => o.OrderDetails.
Where(od => od.Product.Category.CategoryName == categoryName));
List<int> orderIDs = orderDetails.Select(od => od.OrderID).ToList();
var orders = db.Orders.Where(o => orderIDs.Contains(o.OrderID));`

- A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

QUESTION 93

Drag and Drop Question

You are developing a WCF service application. The application must meet the following requirements:

- Operations must have 30 second timeouts.
- The service must have a transaction scope.
- Transactions must flow from the client to the server.

You need to write a transactional service contract and implementation class to meet the requirements. You have the following code:

```

Target 1
interface ITransactionalService
{
    [OperationContract]
    Target 2
    Guid Foo (string x1, int x2);
}
Target 3
public class TransactionService: ITransactionalService
{
    Target 4
    public Guid Foo (string x1, int x2)
    {
        throw new NotImplementedException ();
    }
}

```

Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Code Segments

[TransactionFlow(TransactionFlowOption.Allowed)]

[TransactionFlow(TransactionFlowOption.Mandatory)]

[OperationBehavior(TransactionScopeRequired = true)]

[OperationBehavior(TransactionScope.Required)]

[ServiceBehavior(TransactionTimeout = "00:00:30")]

[ServiceBehavior(TransactionTimeout = 30)]

[ServiceContract]

Answer Area

Target 1:

Code Segment

Target 2:

Code Segment

Target 3:

Code Segment

Target 4:

Code Segment

Answer:

Code Segments

[TransactionFlow(TransactionFlowOption.Allowed)]

[TransactionFlow(TransactionFlowOption.Mandatory)]

[OperationBehavior(TransactionScopeRequired = true)]

[OperationBehavior(TransactionScope.Required)]

[ServiceBehavior(TransactionTimeout = "00:00:30")]

[ServiceBehavior(TransactionTimeout = 30)]

[ServiceContract]

Answer Area

Target 1:

[ServiceContract]

Target 2:

[TransactionFlow(TransactionFlowOption.Mandatory)]

Target 3:

[ServiceBehavior(TransactionTimeout = "00:00:30")]

Target 4:

[OperationBehavior(TransactionScopeRequired = true)]

QUESTION 94

Drag and Drop Question

You are developing a WCF service. You need to configure the web.config file to ensure that metadata is exposed only via the MEX protocol. You have the following markup:

```
<services>
  <service behaviorConfiguration="behavior"
    name="CustomerService.Service">
    <endpoint binding="basicHttpBinding"
      contract="CustomerService.IService" />
    <endpoint address="mex" binding="Target 1"
      contract="Target 2" />
  </service>
</services>
<behaviors>
  <serviceBehaviors>
    <behavior name="behavior">
      <serviceMetadata
        Target 3="Target 4" />
    </behavior>
  </serviceBehaviors>
</behaviors>
```

Which XML elements should you include in Target 1, Target 2, Target 3 and Target 4 to complete the markup? (To answer, drag the appropriate XML elements to the correct targets in the answer area. Each XML element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| XML Elements | Answer Area |
|---|--|
| <input type="text" value="httpGetBinding"/> | Target 1: <input type="text" value="XML Element"/> |
| <input type="text" value="httpGetEnabled"/> | Target 2: <input type="text" value="XML Element"/> |
| <input type="text" value="mexHttpBinding"/> | Target 3: <input type="text" value="XML Element"/> |
| <input type="text" value="mexTcpBinding"/> | Target 4: <input type="text" value="XML Element"/> |
| <input type="text" value="mexNamedPipeBinding"/> | |
| <input type="text" value="true"/> | |
| <input type="text" value="false"/> | |
| <input type="text" value="CustomerService.IService"/> | |
| <input type="text" value="IMetadataExchange"/> | |

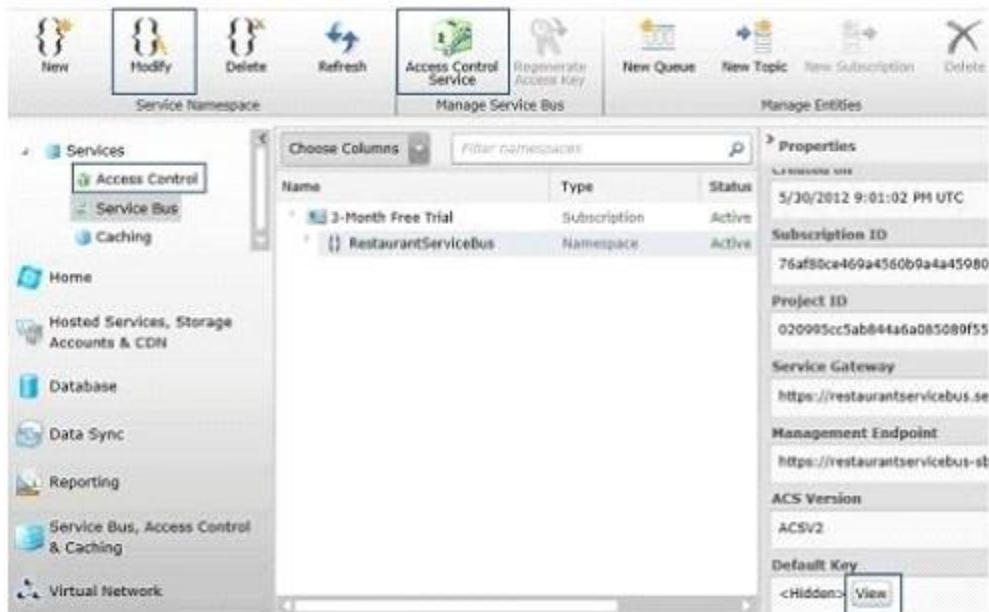
Answer:

| XML Elements | Answer Area |
|---|--|
| <input type="text" value="httpGetBinding"/> | Target 1: <input type="text" value="mexHttpBinding"/> |
| <input type="text" value="httpGetEnabled"/> | Target 2: <input type="text" value="IMetadataExchange"/> |
| <input type="text" value="mexHttpBinding"/> | Target 3: <input type="text" value="httpGetEnabled"/> |
| <input type="text" value="mexTcpBinding"/> | Target 4: <input type="text" value="false"/> |
| <input type="text" value="mexNamedPipeBinding"/> | |
| <input type="text" value="true"/> | |
| <input type="text" value="false"/> | |
| <input type="text" value="CustomerService.IService"/> | |
| <input type="text" value="IMetadataExchange"/> | |

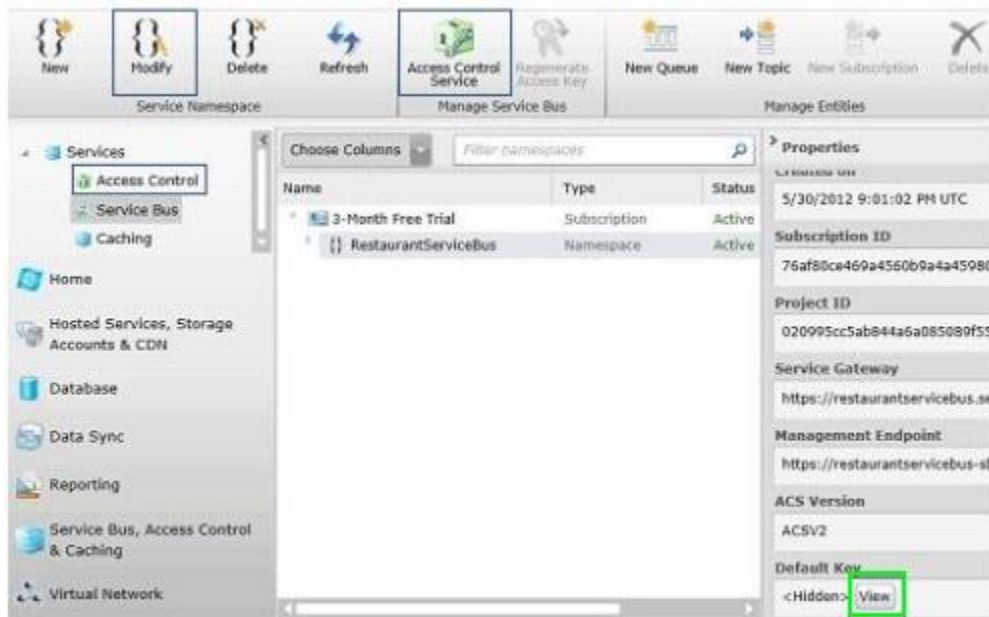
QUESTION 95

Hotspot Question

You are developing a WCF service in Visual Studio 2013 that integrates with the Microsoft Azure service bus relay. The Azure service bus namespace is named RestaurantServiceBus. You need to obtain the issuer name and secret. What should you do? (To answer, select the appropriate option in the answer area.)



Answer:



QUESTION 96

Drag and Drop Question

You are developing an ASP.NET MVC Web API application. The methods of the Web API must return details about the result of the operation. You need to create a method to add products. You have the following code:

```
public Target 1 PostProduct (Target 2 item)
{
    item = repository.Add(item);
    var response = new Target 3 <Product>(
        item, Target 4 .Created);
    string uri = Url.Route("DefaultApi", new { id = item.Id});
    response.Headers Target 5
    return response;
}
```

Which code segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Code Segments | Answer Area |
|--|---|
| <input type="text" value="HttpStatusCode"/> | Target 1: <input type="text" value="Code Segment"/> |
| <input type="text" value="Product"/> | Target 2: <input type="text" value="Code Segment"/> |
| <input type="text" value=".Location = new Uri(uri);"/> | Target 3: <input type="text" value="Code Segment"/> |
| <input type="text" value=".Add(new Uri(uri));"/> | Target 4: <input type="text" value="Code Segment"/> |
| | Target 5: <input type="text" value="Code Segment"/> |

Answer:

| Code Segments | Answer Area |
|--|--|
| <input type="text" value="HttpStatusCode"/> | Target 1: <input type="text" value="HttpStatusCode"/> |
| <input type="text" value="Product"/> | Target 2: <input type="text" value="Product"/> |
| <input type="text" value=".Location = new Uri(uri);"/> | Target 3: <input type="text" value="HttpStatusCode"/> |
| <input type="text" value=".Add(new Uri(uri));"/> | Target 4: <input type="text" value="HttpStatusCode"/> |
| | Target 5: <input type="text" value=".Location = new Uri(uri);"/> |

QUESTION 97

You are developing a .NET application that uses the HttpClient type to call an ASP.NET Web API application. The API call returns a list of customers in JSON format and logs the results. The URI for the API call is in a variable named address. You need to make the API call without blocking. Which code segment should you use?

- ☐ A.

```
HttpClient client = new HttpClient();
client.GetAsync(address).ContinueWith(
    (task) =>
    {
        task.Result.Content.ReadAsAsync<JsonArray>().ContinueWith(
            (readTask) =>
            {
                foreach (var value in readTask.Result)
                {
                    Logger(value.ToString());
                }
            }
        );
    }
);
```
- ☐ B.

```
HttpClient client = new HttpClient();
var task = client.GetAsync(address).Result;

var readTask = task.Content.ReadAsAsync<JsonObject>().Result;

foreach (var value in readTask)
{
    Logger(value.ToString());
}
```
- ☐ C.

```
HttpClient client = new HttpClient();
var task = client.GetAsync(address).Result;

var readTask = task.Content.ReadAsAsync<JsonArray>().Result;

foreach (var value in readTask)
{
    Logger(value.ToString());
}
```
- ☐ D.

```
HttpClient client = new HttpClient();
client.GetAsync(address).ContinueWith(
    (task) =>
    {
        task.Result.Content.ReadAsAsync<JsonObject>().ContinueWith(
            (readTask) =>
            {
                foreach (var value in readTask.Result)
                {
                    Logger(value.ToString());
                }
            }
        );
    }
);
```

- A. Option A
B. Option B

- C. Option C
- D. Option D

Answer: A

QUESTION 98

Drag and Drop Question

You are developing a .NET application that uses the HttpClient type to access an ASP.NET Web API application. You need to add a header to specify that data is returned as JSON. You have the following code:

```
HttpClient client = new HttpClient () ;  
Client.DefaultRequestHeaders.  
    Add("Target 1", "Target 2");
```

Which code segments should you include in Target 1 and Target 2 to complete the code? (To answer, drag the appropriate code segments to the correct targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Code Segments | Answer Area |
|-----------------------|------------------------|
| ContentType | Target 1: Code Segment |
| Accept | Target 2: Code Segment |
| AcceptEncoding | |
| application/xhtml+xml | |
| application/xml | |
| application/json | |

Answer:

| Code Segments | Answer Area |
|--|---|
| <div>ContentType</div> <div>Accept</div> <div>AcceptEncoding</div> <div>application/xhtml+xml</div> <div>application/xml</div> <div>application/json</div> | <div>Target 1: <div>Accept</div></div> <div>Target 2: <div>application/json</div></div> |

QUESTION 99

Hotspot Question

You are updating an existing multitenant ASP.NET MVC application for medical clinics. The application aggressively uses output caching to improve performance by caching content for 36 hours. The application uses a query string parameter named "clinicID" that contains the clinic that the user is currently viewing. Users report that they are occasionally seeing data for the wrong clinic. Users also report that sensitive data is stored in the browser cache folder on their computers. You need to configure web.config to resolve the reported problems. You have the following markup:

```
<aching>
  <outputCacheSettings>
    <outputCacheProfiles>
      <clear />
      <add name="primaryCache"
        Target 1
        Target 2
        Target 3 >/
    </outputCacheProfiles>
  </outputCacheSettings>
</aching>
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete the markup? (To answer, select the correct markup segment from each drop-down list in the answer area.)

Target 1:

| |
|-----------------|
| noStore="true" |
| noStore="false" |

Target 2:

| |
|--------------------------|
| varyByCustom="clinicID" |
| varyByParam="clinicID" |
| varyByControl="clinicID" |

Target 3:

| |
|-------------------|
| duration="129600" |
| duration="36h" |

Answer:

Target 1:

| |
|-----------------|
| noStore="true" |
| noStore="false" |

Target 2:

| |
|--------------------------|
| varyByCustom="clinicID" |
| varyByParam="clinicID" |
| varyByControl="clinicID" |

Target 3:

| |
|-------------------|
| duration="129600" |
| duration="36h" |

QUESTION 100

Drag and Drop Question

You have a UI element library. You need to build a NuGet package to integrate the library into your projects. What should you do? (To answer, drag the appropriate code elements to the correct location or locations in the answer area. Each code element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

| Code Elements | Answer Area |
|---------------|--|
| nupkg | 1. Define the package in a . <input type="text" value="Code"/> file. |
| nuspec | 2. Build the package with the following command. |
| Build | NuGet <input type="text" value="Code"/> MyPackage. <input type="text" value="Code"/> |
| Pack | |

Answer:

| Code Elements | Answer Area |
|---------------|--|
| nupkg | 1. Define the package in a . <input type="text" value="nuspec"/> file. |
| nuspec | 2. Build the package with the following command. |
| Build | NuGet <input type="text" value="Pack"/> MyPackage. <input type="text" value="nuspec"/> |
| Pack | |

QUESTION 101

Hotspot Question

You are developing a WCF service. The service must be interoperable with ASP.NET web service clients. In addition, it must have a time-out of three hours. You need to configure the service to meet the requirements. You have the following markup:

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <system.serviceModel>
    <services>
      <service name="MyNamespace.Orderservice">
        <endpoint address=""
          contract="MyNamespace.IOrderservice"
          binding="Target 1"
          bindingConfiguration="Target 2">
        </endpoint>
      </service>
    </services>
    <bindings>
      <Target 3>
        <binding name="Target 4"
          Target 5="Target 6"/>
      </Target 7>
    </bindings>
  </system.serviceModel>
</configuration>
```

Which markup segments should you include in Target 1, Target 2, Target 3, Target 4, Target 5, Target 6 and Target 7 to complete the markup? (To answer, select the appropriate markup segment)

from each drop-down list in the answer area.)

Answer Area

Target 1:
basicHttpBinding
closeTimeout
timeout
wsHttpBinding

Target 2:
basicHttpBinding
closeTimeout
timeout
wsHttpBinding

Target 3:
basicHttpBinding
closeTimeout
timeout
wsHttpBinding

Target 4:
basicHttpBinding
closeTimeout
timeout
wsHttpBinding

Target 5:
basicHttpBinding
closeTimeout
timeout
wsHttpBinding

Target 6:
03:00:00
00:03:00
00:00:03

Target 7:
basicHttpBinding
closeTimeout
timeout
wsHttpBinding

Answer:

Answer Area

Target 1:
closeTimeout
timeout
wsHttpBinding

Target 2:
closeTimeout
timeout
wsHttpBinding

Target 3:
closeTimeout
timeout
wsHttpBinding

Target 4:
closeTimeout
timeout
wsHttpBinding

Target 5:
closeTimeout
timeout
wsHttpBinding

Target 6:
00:03:00
00:00:03

Target 7:
closeTimeout
timeout
wsHttpBinding

QUESTION 102

Drag and Drop Question

You are configuring a web application pool for deployment. You need to create a SetParameters.xml file to configure the IIS application pool. You have the following markup:

```
<?xml version="1.0" encoding="UTF-8"?>
<parameters>
  <setParameter
    Target 1
    Target 2
  </setParameter>
</parameters>
```

Which configuration values should you include in Target 1 and Target 2 to complete the markup? (To answer, drag the appropriate configuration values to the correct targets in the answer area. Each configuration value may be used once, more than once, or not at all. You may need to drag

the split bar between panes or scroll to view content.)

| Configuration Values | Answer Area |
|---|--|
| <input type="text" value='key="applicationPool"'/> | Target 1: <input type="text" value="Configuration Value"/> |
| <input type="text" value='name="applicationPool"'/> | Target 2: <input type="text" value="Configuration Value"/> |
| <input type="text" value='setting="applicationPool"'/> | |
| <input type="text" value='setting="MyServiceNameAppPool" />'/> | |
| <input type="text" value='param="MyServiceNameAppPool" />'/> | |
| <input type="text" value='value="MyServiceNameAppPool" />'/> | |

Answer:

| Configuration Values | Answer Area |
|---|---|
| <input type="text" value='key="applicationPool"'/> | Target 1: <input type="text" value='name="applicationPool"'/> |
| <input type="text" value='name="applicationPool"'/> | Target 2: <input type="text" value='value="MyServiceNameAppPool" />'/> |
| <input type="text" value='setting="applicationPool"'/> | |
| <input type="text" value='setting="MyServiceNameAppPool" />'/> | |
| <input type="text" value='param="MyServiceNameAppPool" />'/> | |
| <input type="text" value='value="MyServiceNameAppPool" />'/> | |

QUESTION 103

You are developing an ASP.NET MVC application. The application has a page that updates an image stored in a database. Members of the EntityClient namespace are used to access an ADO.NET Entity Framework data model. Images and associated metadata are stored in a single database table. You need to run a single query that updates an image and associated metadata in the database while returning only the number of affected rows. Which method of the EntityCommand type should you use?

- A. ExecuteNonQuery()
- B. ExecuteScalar()
- C. ExecuteDbDataReader()
- D. ExecuteReader()

Answer: A

QUESTION 104

You are developing a new ASP.NET MVC application that does not have an existing database. The requirements for the application are not complete, and the SQL data model will likely change. You need to choose an approach to visually manage a data model. Which approach should you

use?

- A. Physical First
- B. Database First
- C. Code First
- D. Model First

Answer: D

Explanation:

With the model first workflow, you can design a model in a designer.

QUESTION 105

You are preparing to develop a set of libraries that uses large data sets. The libraries must be shared across an organization and distributed to several servers. You need to create a remote NuGet feed that exposes the libraries for developer use. What should you do? (Each answer presents part of the solution. Choose all that apply.)

- A. Add packages to the Packages folder.
- B. Create a new Empty Web Application in Visual Studio.
- C. Configure the Packages folder located in the appSettings section of the web application's Web.config.
- D. Install the NuGet.DataFeed Package.
- E. Install the NuGet.Server Package.
- F. Create a new Empty Web Site in Visual Studio.

Answer: ABCE

Explanation:

Creating Remote Feeds: You can host a remote (or internal) feed on a server that runs IIS.

Step 1 (B): Create a new Empty Web Application in Visual Studio.

Step 2 (E): Install the NuGet.Server Package.

Step 3 (C): Configure the Packages folder.

Step 4 (A): Add Packages to the Packages folder.

Step 5: Deploy and run your brand new Package Feed.

Reference: Hosting Your Own NuGet Feeds

QUESTION 106

Drag and Drop Question

You are supporting a WCF data contract that returns a price calculation that can be expanded to add new data members. Clients using the old version of the data contract must be supported. You need to define the data contract so that the data serializer can put unknown data members into a property bag. You have the following code:

```
[DataContract]
public class PriceCalculationResponse : Target 1
{
    public Target 2 ExtensionData { get; set; }
    [DataMember]
    public int Flag { get; set; }
    [DataMember]
    public double Price { get; set; }
    [DataMember]
    public string Currency { get; set; }
}
```

Which code segments should you include in Target 1 and Target 2 to complete the data contract? (To answer, drag the appropriate code elements to the correct targets in the answer area. Each code element may be used once, more than once, or not at all. You may need to drag the split bar

between panes or scroll to view content.)

| Code Elements | Answer Area |
|-----------------------|------------------------|
| ExpansionDataObject | Target 1: Code Element |
| IExtensibleDataObject | Target 2: Code Element |
| IExpansionDataObject | |
| ExtensionDataObject | |
| ExtensionData | |
| IExtensionDataObject | |

Answer:

| Code Elements | Answer Area |
|-----------------------|---------------------------------|
| ExpansionDataObject | Target 1: IExtensibleDataObject |
| IExtensibleDataObject | Target 2: ExtensionDataObject |
| IExpansionDataObject | |
| ExtensionDataObject | |
| ExtensionData | |
| IExtensionDataObject | |

QUESTION 107

You are developing an ASP.NET MVC application that reads and writes data from a SQL Server database. You need to maintain data integrity including retrieving identical sets across reads in all situations that use transactions. Which isolation level should you use?

- A. Repeatable
- B. Serializable
- C. ReadUncommitted
- D. ReadCommitted

Answer: A

Explanation:

REPEATABLE READ: Specifies that statements cannot read data that has been modified but not yet committed by other transactions and that no other transactions can modify data that has been read by the current transaction until the current transaction completes.

QUESTION 108

You are developing an ASP.NET MVC web application in Visual Studio 2012. The application requires several thousand content files. All content is hosted on the same IIS instance as the application. You detect performance issues when the application starts. You need to resolve the performance issues. What should you do?

- A. Implement HTTP caching in the ASP.NET MVC controllers.
- B. Combine the content files by using ASP.NET MVC bundling.
- C. Install a second IIS instance.
- D. Move the content to a Windows Azure CDN.

Answer: B

QUESTION 109

You are testing an ASP.NET application. The test plan requires that tests run against the application's business layer. You need to use the test project template that meets this requirement. Which template should you use?

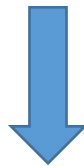
- A. Web Test Project
- B. Load Test Project
- C. Unit Test Project
- D. Coded Test Project

Answer: C

QUESTION 110

.....

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