70-487

Number: 70-487 Passing Score: 700 Time Limit: 120 min

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General

QUESTION 1

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 your do? (To answer, drag the appropriate XML elements to the correct location 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.)

Select and Place:



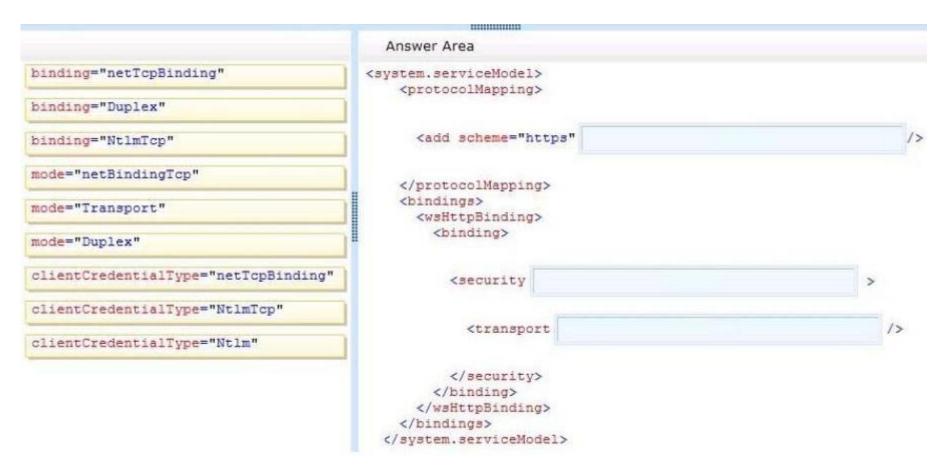


Section: (none) Explanation

Explanation/Reference:

QUESTION 2

You are developing a WCF service. You need to implement transport security by using NTLM authentication and NetTcpBindings. Which configuration values should you use?



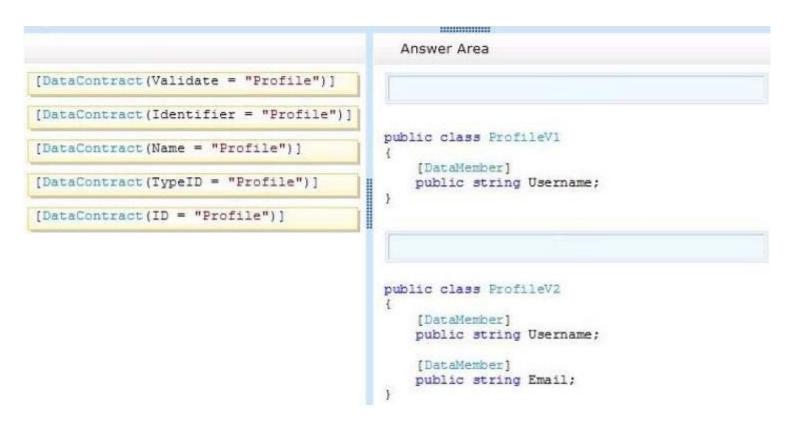


Section: (none) Explanation

Explanation/Reference:

QUESTION 3

You are developing a 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?



```
.....
                                            Answer Area
[DataContract(Validate = "Profile")]
                                           [DataContract(Name = "Profile")]
[DataContract(Identifier = "Profile")]
                                          public class ProfileV1
[DataContract(Name = "Profile")]
                                              [DataMember]
[DataContract(TypeID = "Profile")]
                                              public string Username;
[DataContract(ID = "Profile")]
                                           [DataContract(Name = "Profile")]
                                          public class ProfileV2
                                              [DataMember]
                                              public string Username;
                                              [DataMember]
                                             public string Email;
```

Section: (none) Explanation

Explanation/Reference:

QUESTION 4

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?

	Answer Area		
GET POST	Action	HTTP method	Relative URI
DELETE CREATE READ UPDATE ADD PUT/POST	Retrieve a list of all customers		/api/customers
	Retrieve a customer by id		/api/customers/id
	Retrieve a customer by category		/api/customer/?category=category
	Create a new customer		/api/customers
	Update a customer		/api/customers/id
	Remove a customer		/api/customers/id

	Answer Area	***************************************	
POST	Action	HTTP method	Relative URI
DELETE CREATE READ UPDATE ADD PUT/POST	Retrieve a list of all customers	GET	/api/customers
	Retrieve a customer by id	GET	/api/customers/id
	Retrieve a customer by category	GET	/api/customer/?category=category
	Create a new customer	POST	/api/customers
	Update a customer	PUT/POST	/api/customers/id
	Remove a customer	DELETE	/api/customers/id

Section: (none) Explanation

Explanation/Reference:

Put is a correct answer, however if PUT is missing as an option, POST could also be valid if you consider "id" to be a parameter.

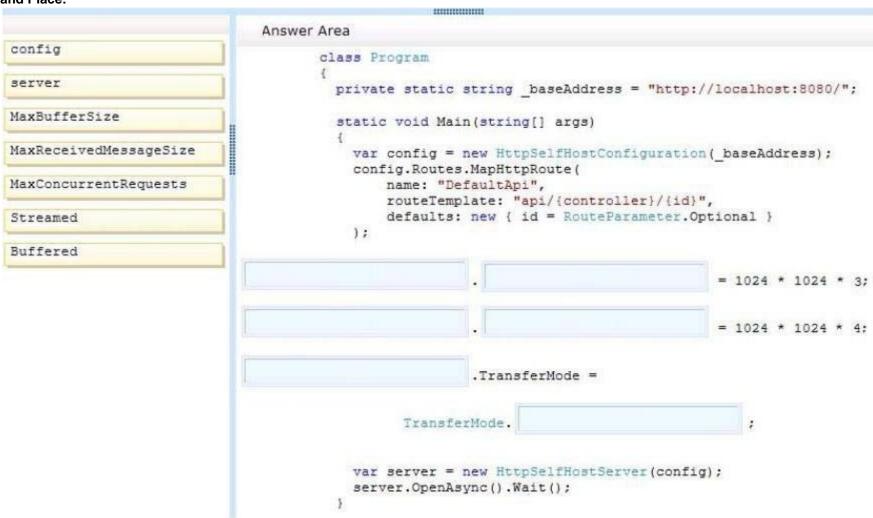
QUESTION 5

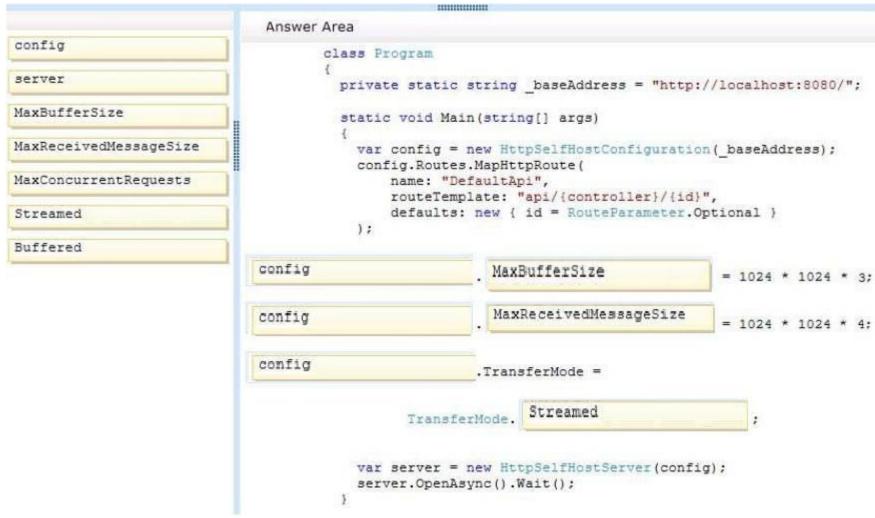
You are developing an ASP.NET MVC Web API image management application.

The application must meet the following requirements:

- It must sent 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?



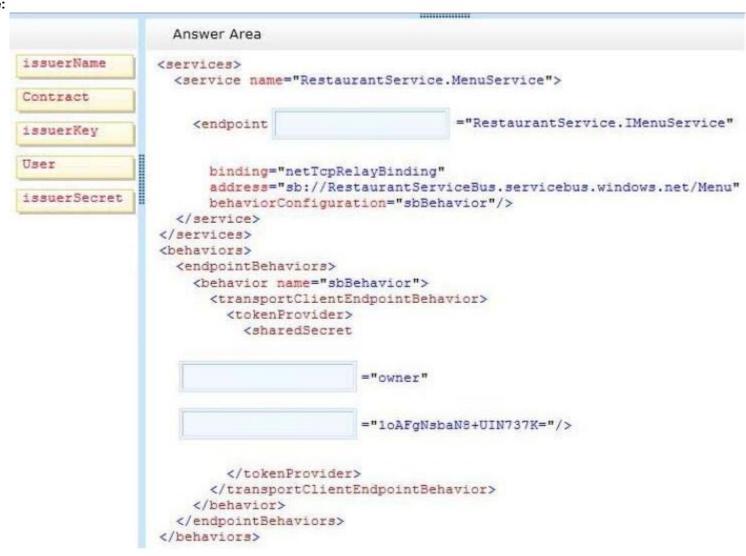


Section: (none) Explanation

Explanation/Reference:

QUESTION 6

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?



Correct Answer:



Section: (none) Explanation

Explanation/Reference:

QUESTION 7

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?



```
Answer Area
ChangeInterceptor
                   public class MovieService : DataService < MovieEntities >
                     public static void InitializeService(DataServiceConfiguration config)
"MovieEntities"
                       config.SetEntitySetAccessRule("Movies", EntitySetRights.AllRead);
                       config.DataServiceBehavior.MaxProtocolVersion =
Filter
                        DataServiceProtocolVersion.V2;
                        QueryInterceptor
                                           "Movies"
                                                            )]
                     public Expression
                                              <Func<Movie, bool>> ApplyTheaterFilter()
                       return movie => movie.IsInTheaters == true;
```

Section: (none) Explanation

Explanation/Reference:

QUESTION 8

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

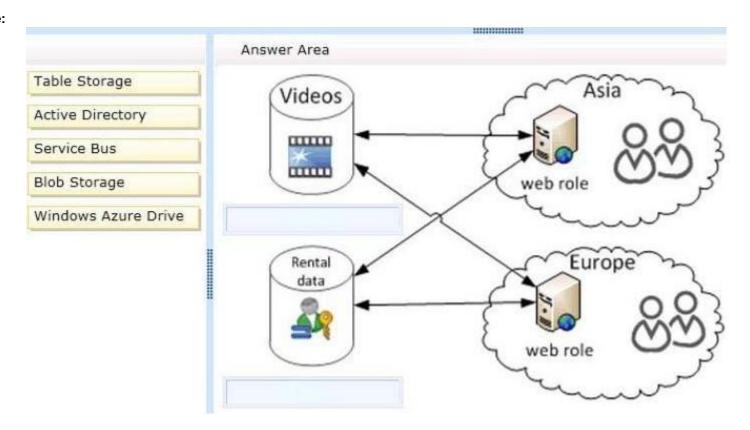
Asia and Europe.

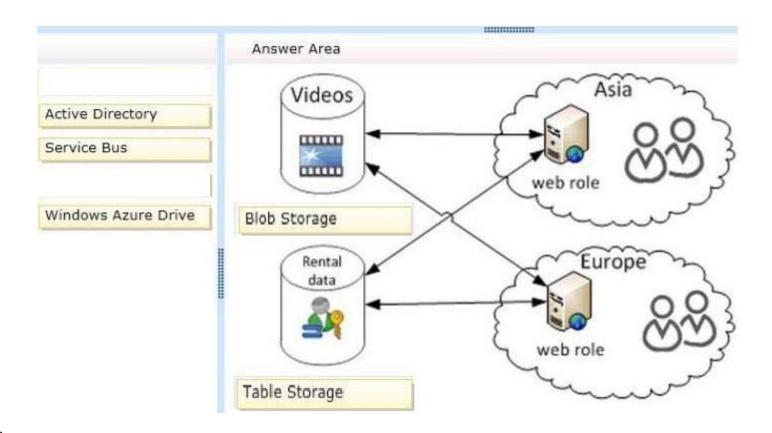
The web application must meet the following requirements:

- 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?

Select and Place:





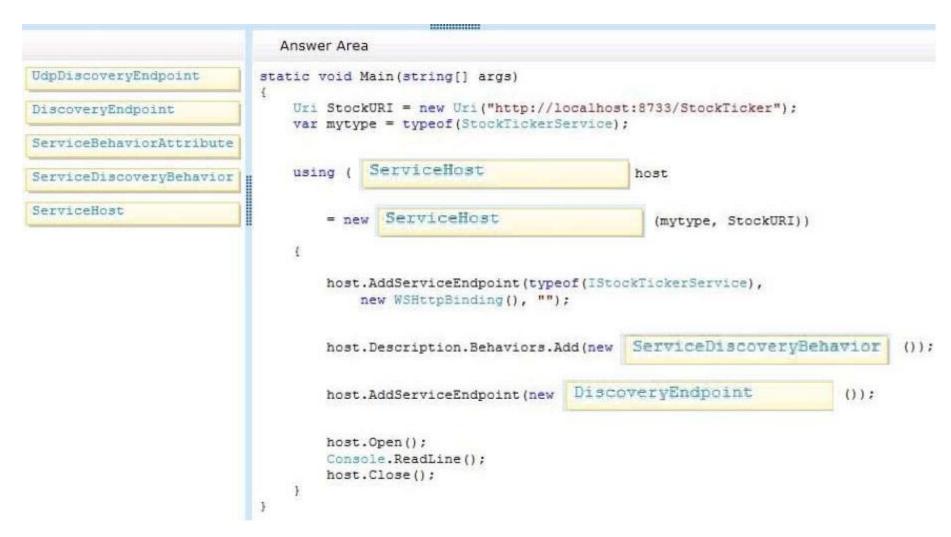
Section: (none) Explanation

Explanation/Reference:

QUESTION 9

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?

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



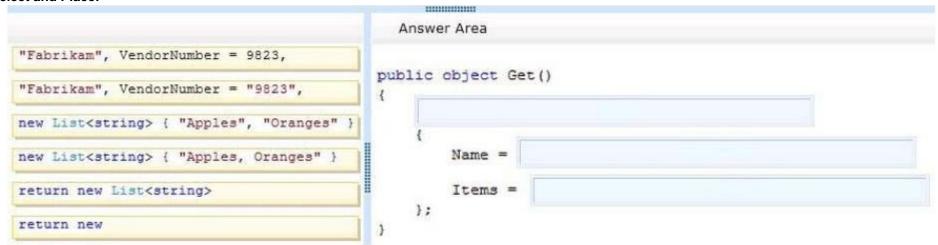
Section: (none) Explanation

Explanation/Reference:

QUESTION 10

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?

Select and Place:



```
Answer Area

"Fabrikam", VendorNumber = "9823",

public object Get()
{
    return new
}

new List<string> { "Apples, Oranges" }

return new List<string> { "Apples", "Oranges" }
};

return new List<string> { "Apples", "Oranges" }
};
```

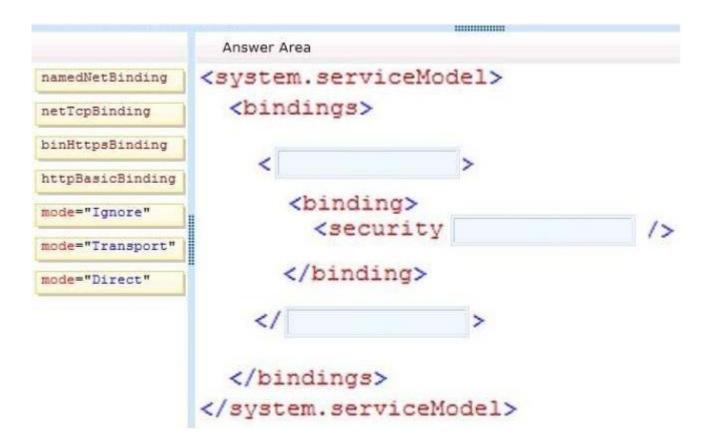
Section: (none) Explanation

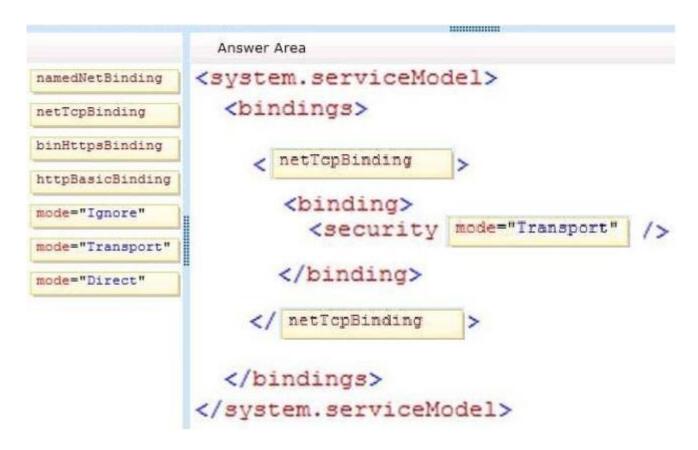
Explanation/Reference:

QUESTION 11

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?

Select and Place:





Section: (none) Explanation

Explanation/Reference:

QUESTION 12

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": ["Dogs", "Cats"]} You need to return an anonymous object that is serialized to JSON. What should you do?

```
"Fabrikam", VendorNumber = 9823,

"Fabrikam", VendorNumber = "9823",

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

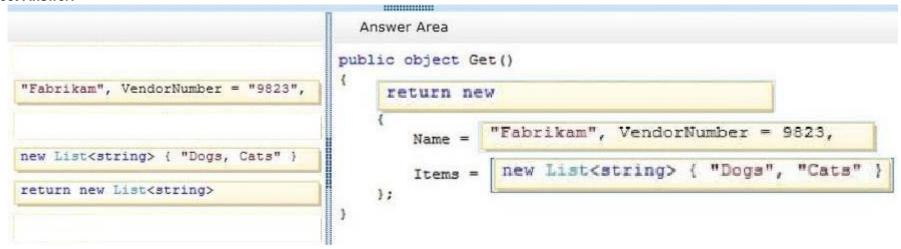
new List<string> { "Dogs, Cats" }

Items =

return new List<string>
};

Items =

};
```



Section: (none) Explanation

Explanation/Reference:

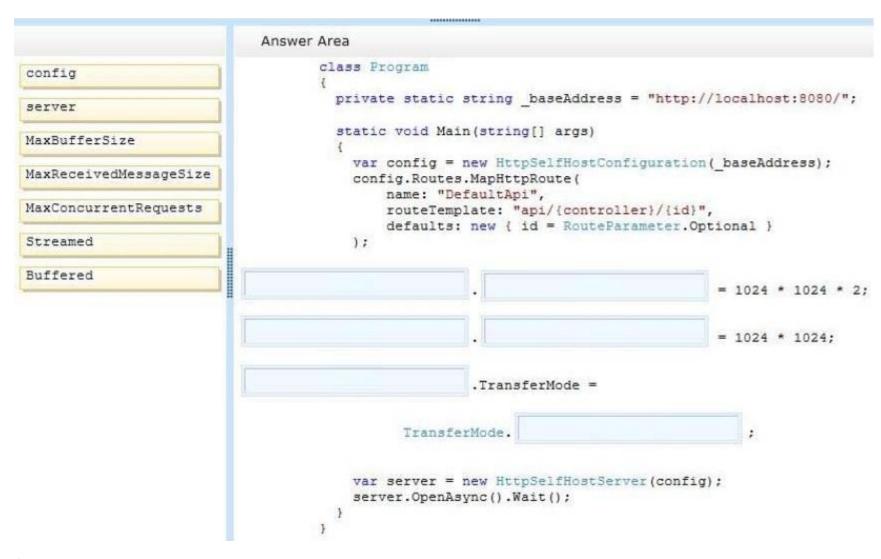
QUESTION 13

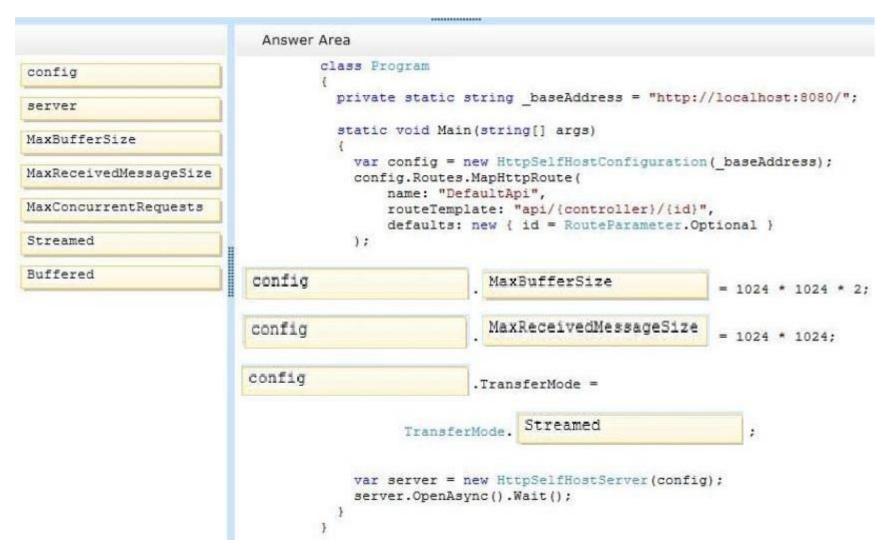
You are developing an ASP.NET MVC Web API application.

The application must meet the following requirements:

- It must sent or receive image 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? continuous



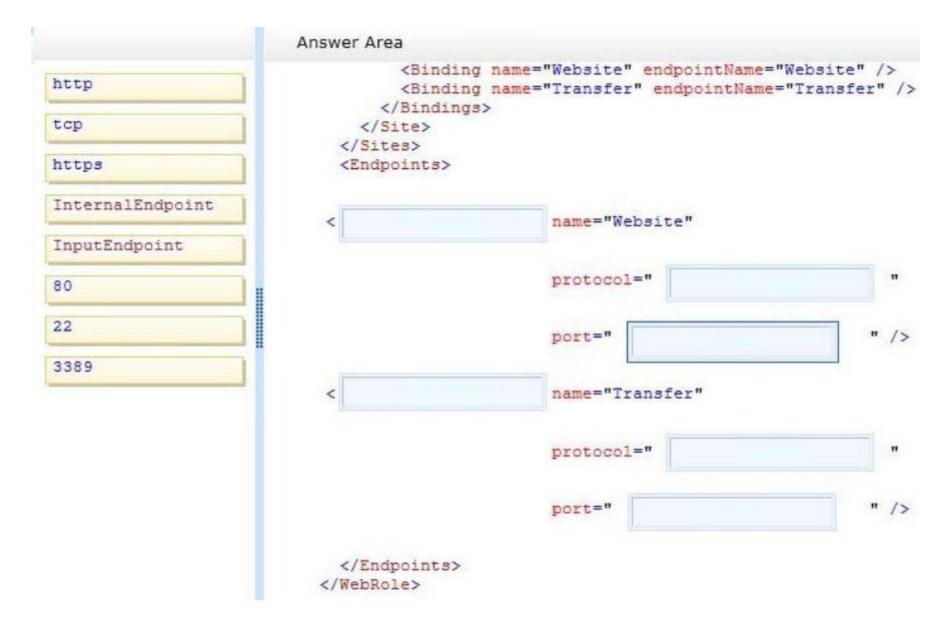


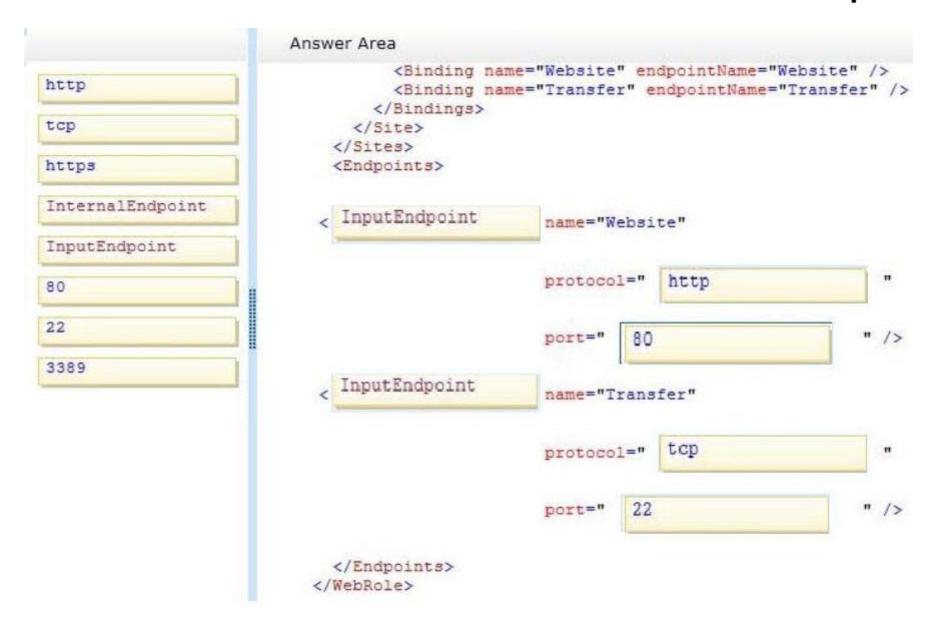
Section: (none) Explanation

Explanation/Reference:

QUESTION 14

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.)





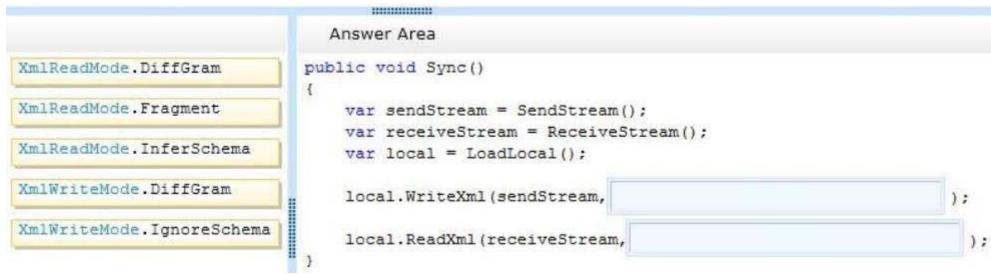
Section: (none) Explanation

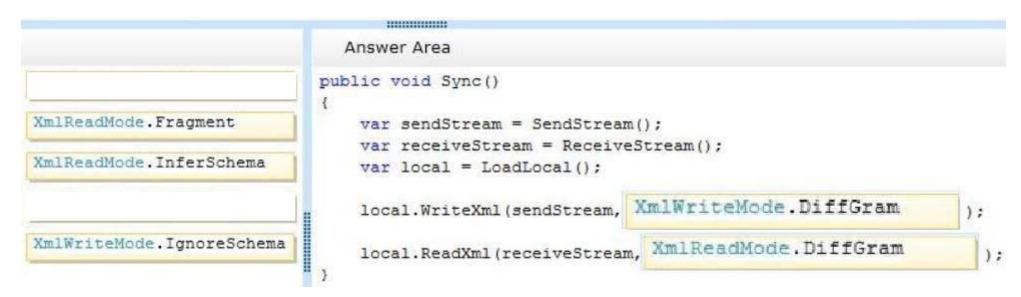
Explanation/Reference:

QUESTION 15

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.)

Select and Place:





Section: (none) Explanation

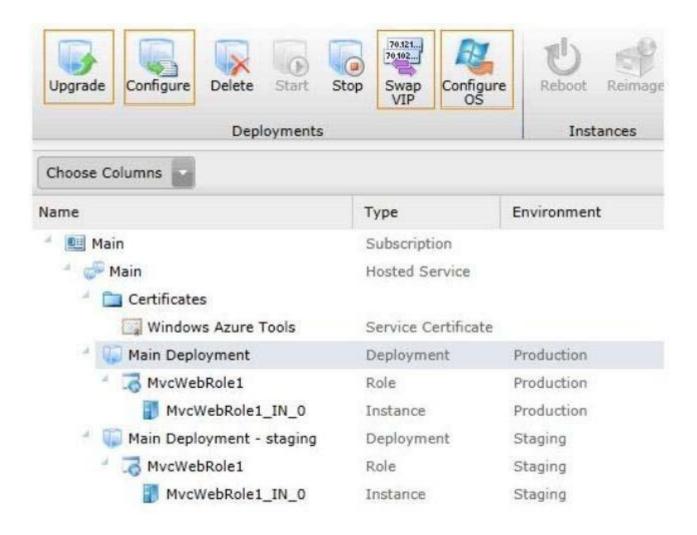
Explanation/Reference:

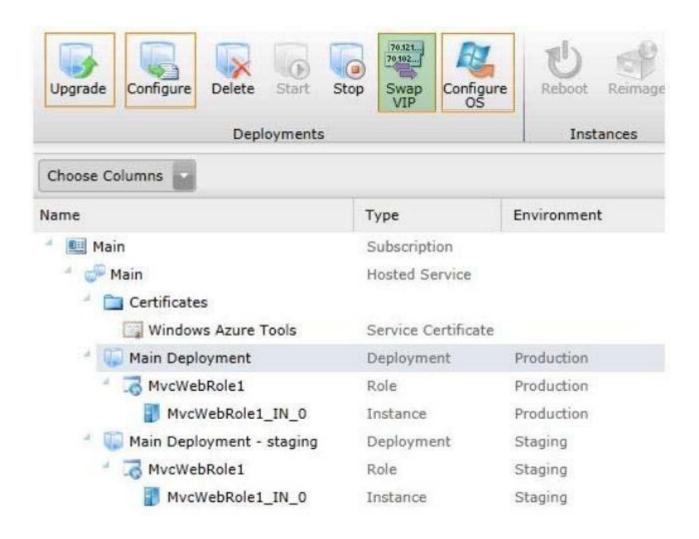
QUESTION 16

HOTSPOT

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.)

Hot Area:





Section: (none) Explanation

Explanation/Reference:

QUESTION 17DRAG DROP

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.)

Select and Place:



Correct Answer:



Section: (none) Explanation

Explanation/Reference:

QUESTION 18

DRAG DROP

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"	
oindingRedirect oldVersion="1.2.5.0" newVersion="1.3.0.0"	
oindingRedirect oldVersion="1.2.0.0" newVersion="1.3.0.0"	
runtime	
Location	
	>
<pre><assemblybinding xmlns="urn:schemas-microsoft-com:asm.v1"></assemblybinding></pre>	
	>

```
.....
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
```

Section: (none) Explanation

Explanation/Reference:

QUESTION 19

DRAG DROP

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

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.)

Select and Place:

```
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;
```

```
var flights = feed. Elements (
feed.Root.GetPrefixOfNamespace("{urn:CFI}") + "Flight");
var flights = feed.Descendants().Where(x =>
x.NodeType != XmlNodeType.XmlDeclaration && (string)x ==
"Flight");
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,
```

Section:	(none)
Explanat	ion

Explanation/Reference:

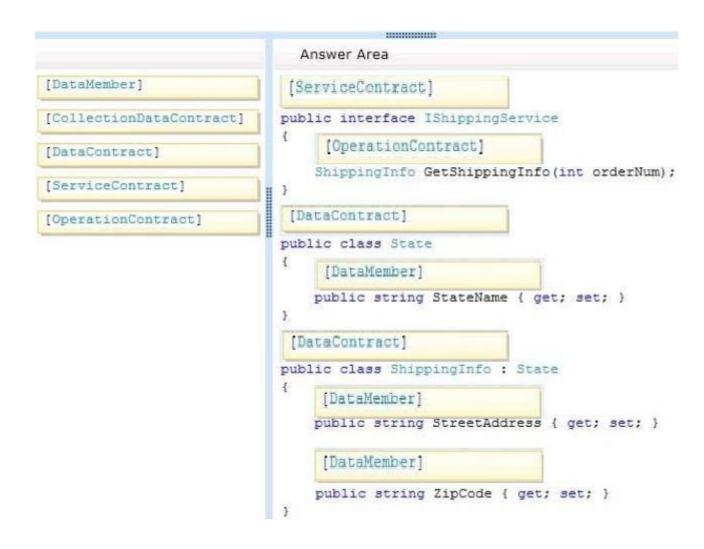
QUESTION 20

DRAG DROP

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.)

Select and Place:



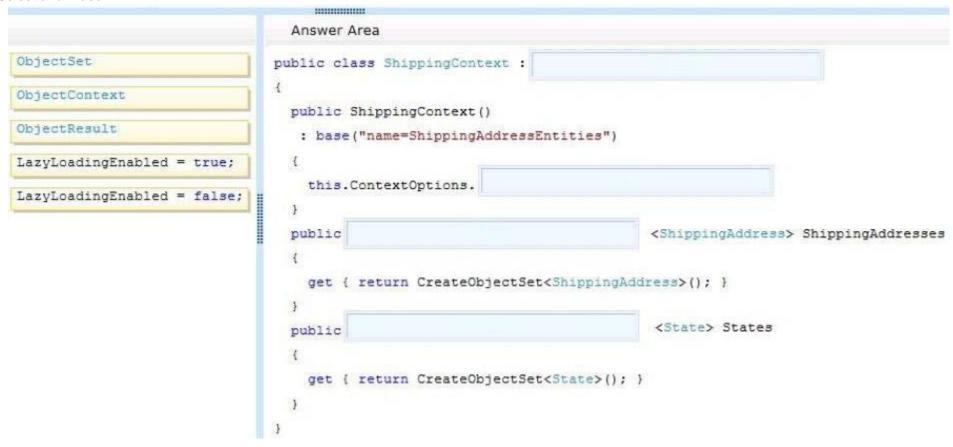


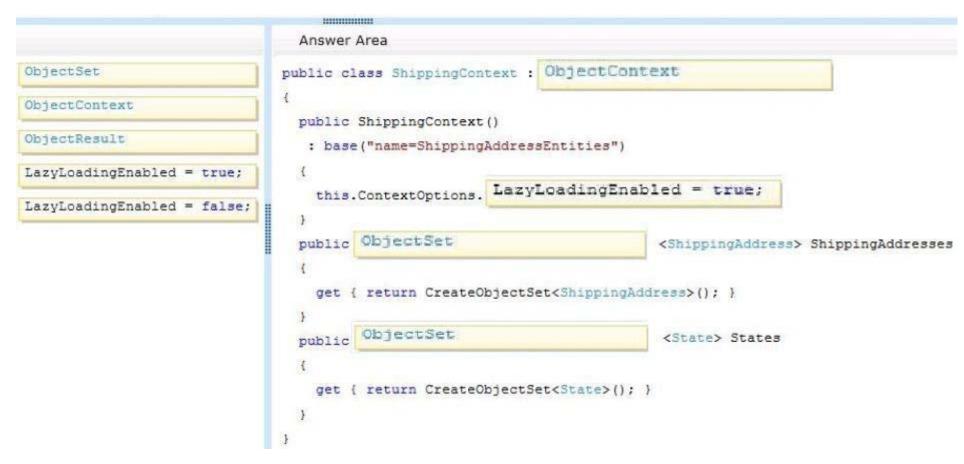
Section: (none) Explanation

Explanation/Reference:

QUESTION 21 DRAG DROP You need to create the ShippingContext class in the ShippingAddress.cs 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.)

Select and Place:





Section: (none) Explanation

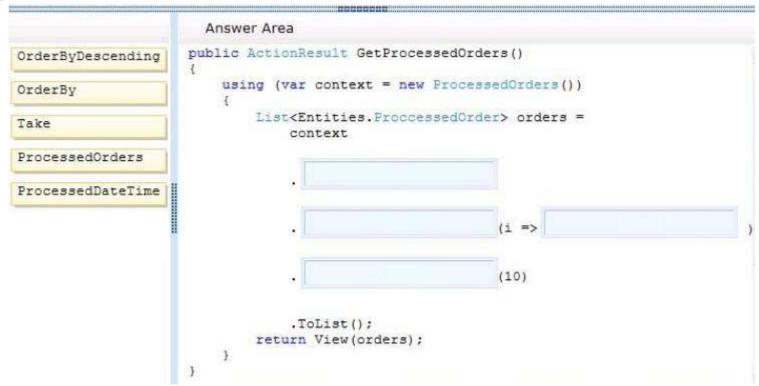
Explanation/Reference:

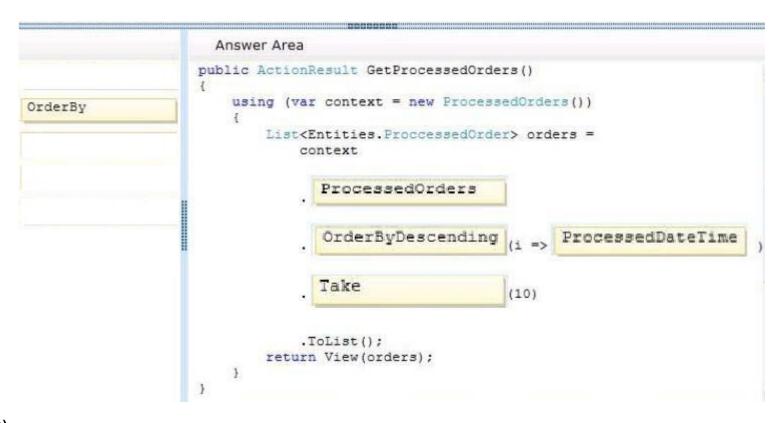
QUESTION 22

DRAG DROP

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.)

Select and Place:





Section: (none) Explanation

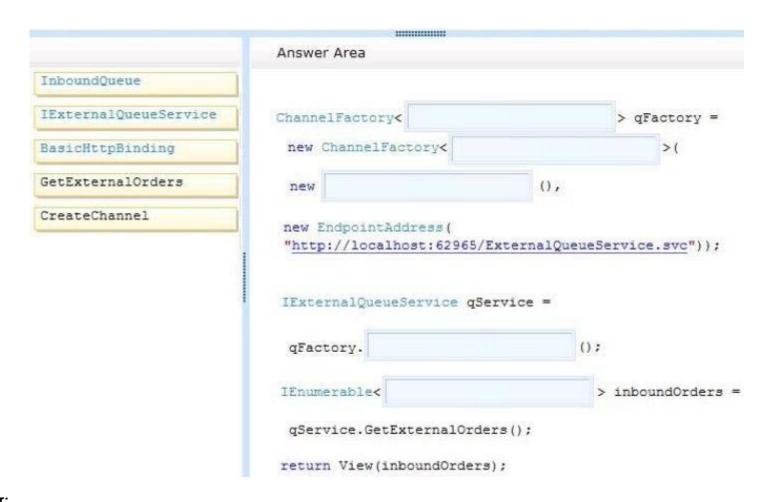
Explanation/Reference:

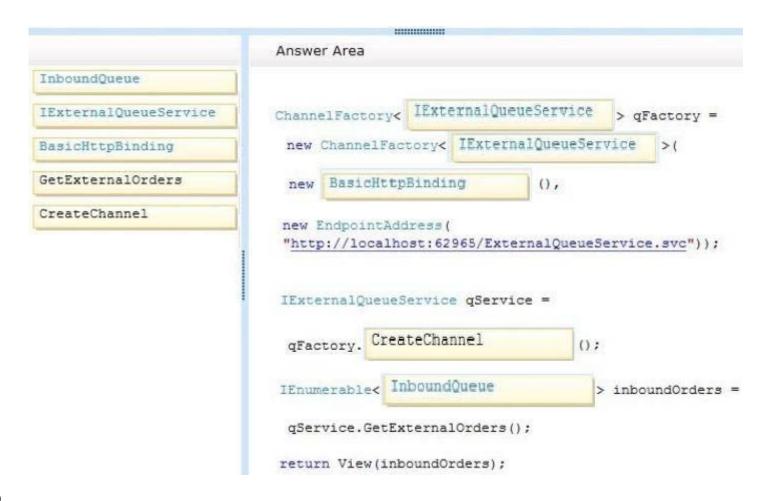
QUESTION 23

DRAG DROP

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 service 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.)

Select and Place:





Section: (none) **Explanation**

Explanation/Reference:

QUESTION 24

DRAG DROP

The GetExternalOrders() method must use members of the EntityClient namespace to guery 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.)
Select and Place:
www.vceplus.com - Website designed to help IT pros advance their careers - Born to Learn

Answer Area public List<Entities.InboundQueue> GetExternalOrders() ExecuteReader ExecuteScalar EntityConnection connection = SequentialAccess new EntityConnection("name= KeyInfo connection.Open(); ExternalOrders EntityCommand cmd = connection.CreateCommand (); cmd.CommandText = @"select g.OrderNum, g.VendorId, ExternalOrdersEntities g. FilePath, g. OrderValue from .InboundQueues as g"; EntityDataReader rdr = (CommandBehavior. cmd. 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;

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Answer Area ExecuteReader public List<Entities.InboundQueue> GetExternalOrders() EntityConnection connection = ExecuteScalar SequentialAccess new EntityConnection ("name= ExternalOrdersEntities "). KeyInfo connection.Open(); ExternalOrders EntityCommand cmd = connection.CreateCommand (); cmd.CommandText = @"select g.OrderNum, g.VendorId, ExternalOrdersEntities g. FilePath, g. OrderValue ExternalOrdersEntities .InboundQueues as q"; EntityDataReader rdr = ExecuteReader SequentialAccess); (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;

Section: (none) Explanation

Explanation/Reference:

QUESTION 25 DRAG DROP

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

Select and Place:

```
Answer Area

await connection.OpenAsync();

await command.ExecuteNonQueryAsync();

connection.OpenAsync();

command.OpenAsync();

await command.QueryAsync();

await command.QueryAsync();

await command.QueryAsync();
```

Section: (none) Explanation

Explanation/Reference:

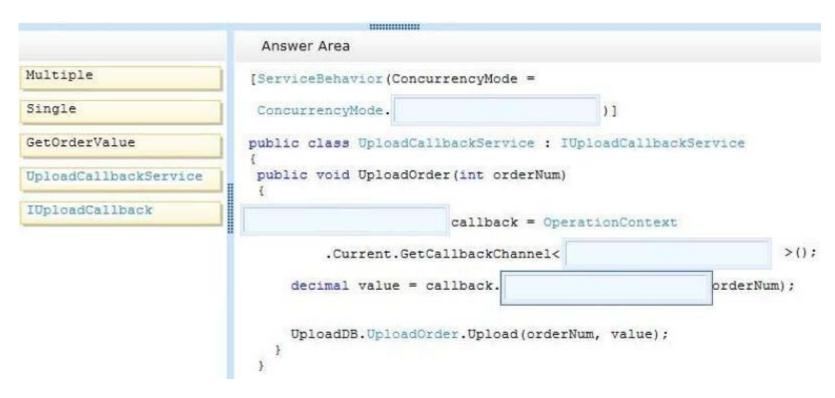
QUESTION 26

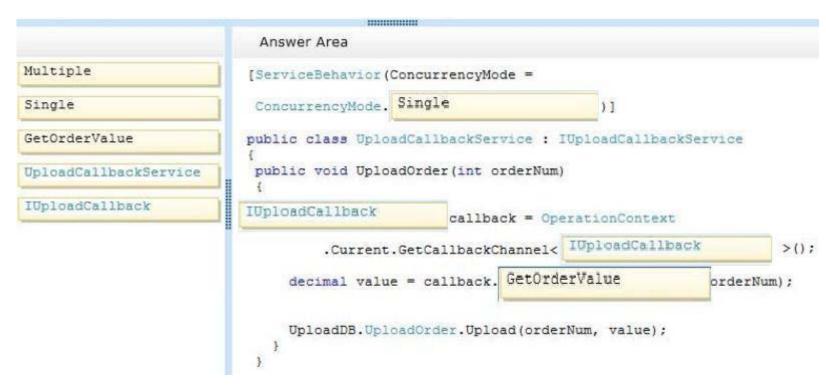
DRAG DROP

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.)

Select and Place:





Section: (none) Explanation

Explanation/Reference:

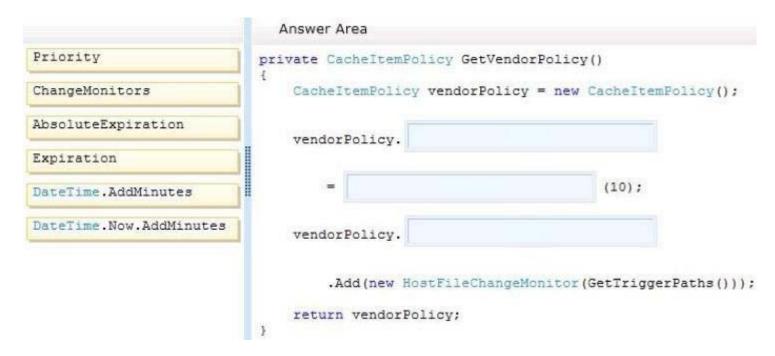
QUESTION 27

DRAG DROP

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.)

Select and Place:





Section: (none) Explanation

Explanation/Reference:

QUESTION 28

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

Correct Answer: AB Section: (none)

Explanation

Explanation/Reference:

EdmGen.exe (http://msdn.microsoft.com/en-us/library/cc716721.aspx)

ADO.Net Entity Data Model Designer (http://msdn.microsoft.com/en-us/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 29

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

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 30

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

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?

Hot Area:

```
A. <script>
              $(function () {
                var $customers = $("#customers");
                $.ajax({
                  url: "api/customers",
                  dataType: "json",
                  success: function (data) {
                1);
              1):
            </script>
      CB. <script>
               $ (function () {
                 var $customers = $("#customers");
                 S.xml({
                  url: "api/customers",
                   dataType: "ajax",
                   success: function (data) {
                     ...
                1);
               1);
             </script>
            <script>
              $(function () {
                 var $customers = $("#customers");
                 $.json({
                  url: "api/customers",
                   dataType: "ajax",
                   success: function (data) {
                1):
www.vcer
                                                    ı to Learn
               1);
            </script>
```

```
A <script>
              $(function () {
                var $customers = $("#customers");
                $.ajax({
                  url: "api/customers",
                  dataType: "json",
                  success: function (data) {
                1);
              1):
            </script>
      CB. <script>
               $ (function () {
                 var $customers = $("#customers");
                 S.xml({
                  url: "api/customers",
                   dataType: "ajax",
                   success: function (data) {
                     ...
                1);
               1);
             </script>
            <script>
              $(function () {
                var $customers = $("#customers");
                $.json({
                  url: "api/customers",
                  dataType: "ajax",
                   success: function (data) {
                1):
www.vcer
                                                    to Learn
               1);
            </script>
```

Section: (none) Explanation

Explanation/Reference:

QUESTION 31

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

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 32

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

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 33

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.

Correct Answer: BEFG

Section: (none) Explanation

Explanation/Reference:

QUESTION 34

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.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 35

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.

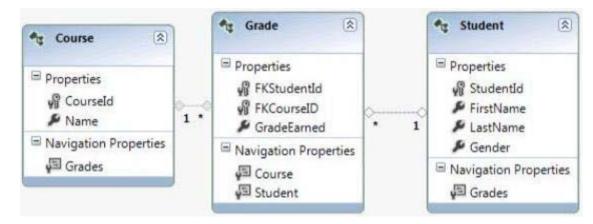
 When an update is needed, update the netmodule in the shared location.
- D. Install the security assembly in the Global Assembly Cache (GAC). When an update is needed, update the assembly in the GAC.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 36

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'

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 37

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

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

SQL Server Isolation Levels

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

(http://msdn.microsoft.com/en-us/library/ms173763.aspx)

QUESTION 38

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

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 39

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

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

WCF Instancing Modes (http://msdn.microsoft.com/en-us/library/ms731193.aspx)

QUESTION 40

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

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 41

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

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 42

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?

Hot Area:

```
public ActionResult Index()
  IQueryable<Order> orders = db.Orders;
  orders = orders.Include("Customer");
  return View(orders.ToList());
public ActionResult Index()
  IQueryable<Order> orders = db.Orders.Include("Order.Customer");
  return View(orders.ToList());
public ActionResult Index()
  IQueryable<Order> orders = db.Orders;
  orders.Select(o => o.Customer).Load();
  return View(orders.ToList());
public ActionResult Index()
  IQueryable<Order> orders = db.Orders;
  return View(orders.ToList());
```

```
public ActionResult Index()
  IQueryable<Order> orders = db.Orders;
  orders = orders.Include("Customer");
  return View(orders.ToList());
public ActionResult Index()
  IQueryable<Order> orders = db.Orders.Include("Order.Customer");
  return View(orders.ToList());
public ActionResult Index()
  IQueryable<Order> orders = db.Orders;
  orders.Select(o => o.Customer).Load();
  return View(orders.ToList());
public ActionResult Index()
  IQueryable<Order> orders = db.Orders;
  return View(orders.ToList());
```

Explanation/Reference:

QUESTION 43

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

Correct Answer: C Section: (none) Explanation

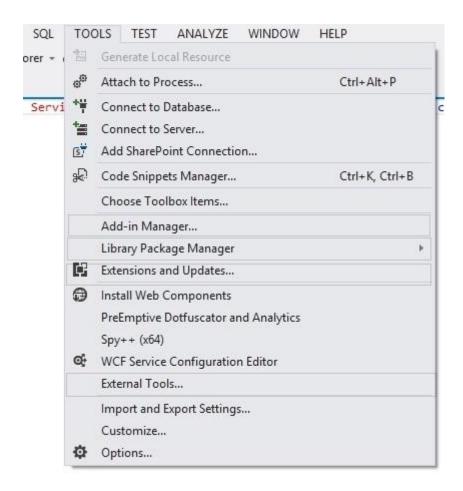
Explanation/Reference:

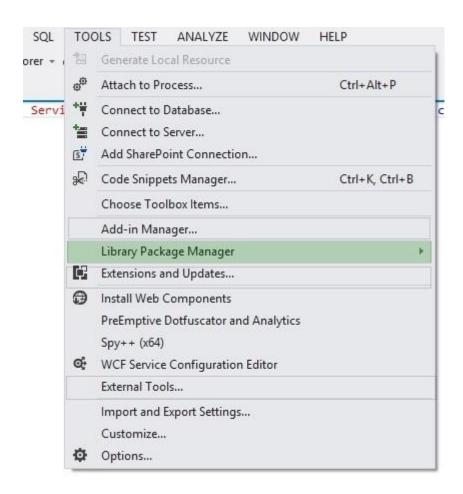
SQL Server Isolation Levels (http://msdn.microsoft.com/en-us/library/ms189122(v=sql.105).aspx) (http://msdn.microsoft.com/en-us/library/ms173763.aspx)

QUESTION 44

HOTSPOT

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.)





Explanation/Reference:

QUESTION 45

You are developing an ASP.NET MVC application. Deployment administrators do not have access to Visual Studio 2012, 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

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 46

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

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 47

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?

```
for (var i = 0; i < 5; i++)
        try
          return base. SaveChanges();
        catch (SqlException ex)
          if (IsTransient (ex.Number))
            continue;
      return base. SaveChanges();
CB.
      var exception = new EntitySglException();
      while (exception.Data != 0 && exception.Data.Count < 5)
        try
          return base.SaveChanges();
        catch (EntitySqlException ex)
          if (IsTransient(ex.HResult))
            exception = ex;
      return base. SaveChanges();
      for (var i = 0; i < 5; i++)
        try
          return base.SaveChanges();
        catch (SqlException ex)
          if (IsTransient(ex.Number))
```

```
for (var i = 0; i < 5; i++)
        try
          return base. SaveChanges();
        catch (SqlException ex)
          if (IsTransient (ex.Number))
            continue;
      return base. SaveChanges();
CB.
      var exception = new EntitySglException();
      while (exception.Data != 0 && exception.Data.Count < 5)
        try
          return base.SaveChanges();
        catch (EntitySqlException ex)
          if (IsTransient(ex.HResult))
            exception = ex;
      return base. SaveChanges();
      for (var i = 0; i < 5; i++)
        try
          return base.SaveChanges();
        catch (SqlException ex)
          if (IsTransient(ex.Number))
```

Section:	(none)
Explanation	

Explanation/Reference:

QUESTION 48

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?

```
C A. var historical = LoadHistorical();
     var query = Context.FlightInfo.AsQueryable()
       .Join(historical, x => x.Flight, y => y.Flight, (x, y) => new { Current = x,
      Historical = v ))
      .Where(x => x.Historical.WasLate)
       .Select(x => x.Current);
B. var historical = LoadHistorical():
     var query = Context.FlightInfo.AsEnumerable()
      .Where (x => historical.All(v => v.WasLate && x.Flight == v.Flight))
       .Select(x => x);
 C. var historical = LoadHistorical():
     var guery = Context.FlightInfo.AsQueryable()
      .Where (x => historical.Select (y => y.Flight).Contains (x.Flight))
      .Where (x => historical.Any(y => y.WasLate))
       .Select(x => x);
C D. var historical = LoadHistorical();
     var query = Context.FlightInfo.AsEnumerable()
       .Join(historical, x => x.Flight, y => y.Flight, (x, y) => new { Current = x,
     Historical = v })
       .Where(x => x.Historical.WasLate)
       .Select(x => x.Current);
```

```
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(v => v.WasLate && x.Flight == v.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
    Historical = v })
     .Where(x => x.Historical.WasLate)
     .Select(x => x.Current);
```

Explanation/Reference:

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.

A will break at runtime.

Credits to Rem

QUESTION 49

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.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 50

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

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 51

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?

```
C 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,
       1:
C 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),
       1:
C 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)),
       3:
C 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),
       1:
```

```
C 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,
       };
C 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),
       1:
C 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)),
       3:
C 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),
       1:
```

Explanation/Reference:

QUESTION 52

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

- A. Office Open XML
- B. COM interop
- C. OleDbConnection and OleDbDataReader
- D. EntityConnection and EntityDataReader

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 53

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.

Correct Answer: EF Section: (none) Explanation

Explanation/Reference:

QUESTION 54

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.cs 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();
OB responseWriter.WriteStartElement("Flights");
      var flights = RemoteDataStream().Select(x =>
         if (GetAirline(x) == airline)
           return ConvertToHistoricalFlight(x);
         return null:
       11:
      flights.TakeWhile(x =>
         x.WriteTo(responseWriter);
         return x != null:
       11:
      responseWriter.WriteEndElement();
C.C. var data = RemoteDataStream().ToDictionary(x =>
       GetAirline (x. Element ("FlightName")),
       x => new XStreamingElement("Flights", ConvertToHistoricalFlight(x).Descendants()));
      data[airline].WriteTo(responseWriter);
C D. var flights = new XStreamingElement("Flights",
       from flight in RemoteDataStream()
       where GetAirline(flight.Element("FlightName")) == airline
       select ConvertToHistoricalFlight(flight));
      flights.WriteTo(responseWriter);
```

```
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();
OB responseWriter.WriteStartElement("Flights");
      var flights = RemoteDataStream().Select(x =>
         if (GetAirline(x) == airline)
           return ConvertToHistoricalFlight(x);
         return null:
       11:
      flights.TakeWhile(x =>
         x.WriteTo(responseWriter);
         return x != null:
       11:
      responseWriter.WriteEndElement();
C.C. var data = RemoteDataStream().ToDictionary(x =>
       GetAirline (x. Element ("FlightName")),
       x => new XStreamingElement("Flights", ConvertToHistoricalFlight(x).Descendants()));
      data[airline].WriteTo(responseWriter);
C D. var flights = new XStreamingElement("Flights",
       from flight in RemoteDataStream()
       where GetAirline(flight.Element("FlightName")) == airline
       select ConvertToHistoricalFlight(flight));
      flights.WriteTo(responseWriter);
```

Section:	(none)
Explanation	

Explanation/Reference:

QUESTION 55

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.cs file?

```
C A var result = FlightInfo.SqlQuery("UPDATE WITH RETRY", FlightInfo, "IsTransient", 5);
      if (result.Count() > 5)
        result.AsNoTracking();
        return -1;
      return 0;
CB.
     try
       return base. SaveChanges();
     catch (EntityCommandExecutionException ex)
       if (ex.Data.Keys.Cast<int>().Any(x => IsTransient(x)))
         return 5 & SaveChanges();
       return -1;
      for (var i = 0; i < 5; i++)
        try
          return base. SaveChanges();
        catch (SqlException ex)
          if (IsTransient(ex.Number))
            continue;
      return base.SaveChanges();
C D. var exception = new EntitySqlException();
      while (exception.HResult != 0 && exception.Data.Count < 5)
        try
          return base. SaveChanges();
```

```
C A var result = FlightInfo.SqlQuery("UPDATE WITH RETRY", FlightInfo, "IsTransient", 5);
      if (result.Count() > 5)
        result.AsNoTracking();
        return -1;
      return 0;
CB.
     try
       return base. SaveChanges();
      catch (EntityCommandExecutionException ex)
        if (ex.Data.Keys.Cast<int>().Any(x => IsTransient(x)))
         return 5 & SaveChanges();
        return -1;
      for (var i = 0; i < 5; i++)
        try
          return base. SaveChanges();
        catch (SqlException ex)
          if (IsTransient(ex.Number))
            continue;
      return base.SaveChanges();
C D. var exception = new EntitySqlException();
      while (exception.HResult != 0 && exception.Data.Count < 5)
        try
          return base. SaveChanges();
```

Explanation/Reference:

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.

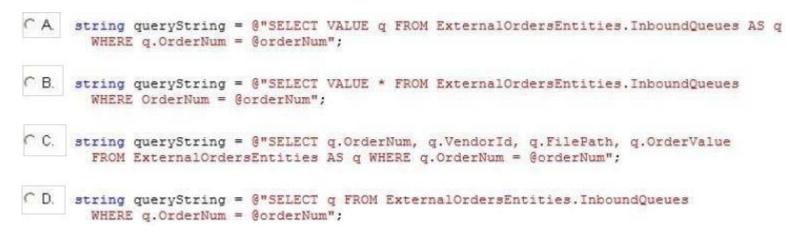
EntityCommandExecutionException: Represents errors that occur when the underlying storage provider could not execute the specified command. This exception usually wraps a provider-specific exception.

QUESTION 56

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?

Hot Area:



```
String queryString = @"SELECT VALUE q FROM ExternalOrdersEntities.InboundQueues AS q
WHERE q.OrderNum = @orderNum";

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

C C. string queryString = @"SELECT q.OrderNum, q.VendorId, q.FilePath, q.OrderValue
FROM ExternalOrdersEntities AS q WHERE q.OrderNum = @orderNum";

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

Explanation/Reference:

QUESTION 57

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

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

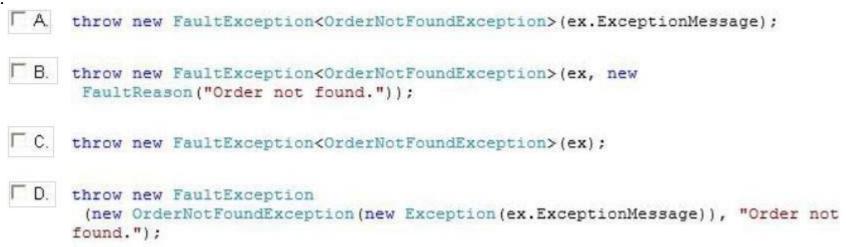
```
private async Task ExecuteCommandProcedure(EntityCommand command)
  using (EntityConnection connection = new EntityConnection
("name=ExternalOrdersEntities"))
    command.Connection = connection:
    await connection.OpenAsync();
    await command. ExecuteNonQueryAsync();
private void ExecuteCommandProcedure(EntityCommand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

Explanation/Reference:

QUESTION 58

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)

Hot Area:



Explanation/Reference:

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

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 60

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 Cacheltem("vendorKey", vendors), GetVendorPolicy());
- B. cache.Add("vendors", vendors, new CacheltemPolicy());
- C. cache.Add(new Cacheltem("vendorKey", vendors), GetVendorPolicy());
- D. cache.AddOrGetExisting("vendorKey", context, new CacheltemPolicy());

Correct Answer: AC Section: (none) Explanation

Explanation/Reference:

QUESTION 61

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.

Correct Answer: BCDE

Section: (none) Explanation

Explanation/Reference:

QUESTION 62

Case Study: 1

Scenario 1

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 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();
```

C. D.
Correct Answer: A Section: (none) Explanation
Explanation/Reference:
QUESTION 63 Case Study: 2
Scenario 2
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:

А. В.

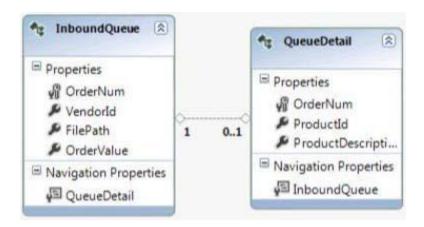
The solution contains the following four projects.

· 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.



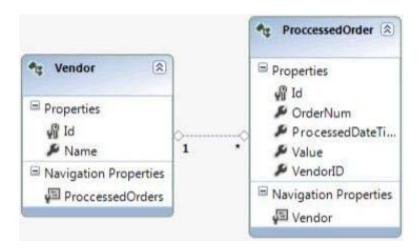
The project contains two services defined in the following files.

- · IExternalQueueService.cs
- · ExternalQueueService.svc.

The ExternalQueue. Helpers namespace contains a definition for a class named OrderNotFound Exception.

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.cs
- · ProcessedOrderController.cs

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.cs
- · 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.cs file. The POCO entity must be loaded by using lazy loading. The project contains two services defined in the following files.

- · IShippingService.cs
- · 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;
I004
IQ05 namespace ExternalQueue
IQ06 {
      [ServiceContract]
IQ07
      public interface IExternalQueueService
IQ08
IQ09
         [OperationContract]
IQ10
         List<Entities.InboundQueue> GetExternalOrders();
IQ11
IQ12
IQ13
        [FaultContract(typeof(OrderNotFoundException))]
         [OperationContract]
IQ14
        void DeleteExternalOrder(int orderNum);
IQ15
IQ16
IQ17
         [OperationContract]
IQ18
        Entities. InboundQueue GetExternalOrder(int orderNum);
IQ19
IQ20 }
```

OrderProcessor\IExternalQueueService.svc

```
EQ01 using System;
EQ02 using System.Collections.Generic:
EQ03 using System.Ling;
EQ04 using System.Data.EntityClient;
EQ05 using System.Data;
E006 using ExternalQueue.Entities:
EQ07 using System.Data.Objects;
EQ08 using ExternalQueue.Helpers;
EQ09 using System.ServiceModel;
EQ10 using System. Threading. Tasks;
E011
E012 namespace ExternalQueue
EQ13 (
E014
      public class ExternalQueueService : IExternalQueueService
EQ15
EQ16
         public List<Entities.InboundQueue> GetExternalOrders()
E017
EQ18
           List<InboundQueue> queueItems = new List<InboundQueue>();
EQ19
           return queueItems;
EQ20
E021
EQ22
         public void DeleteExternalOrder(int orderNum)
EQ23
EQ24
           using (var context = new ExternalOrdersEntities())
E025
E026
             var orders = context.InboundQueues.Where(i => i.OrderNum ==
orderNum) . ToList();
EQ27
             if (orders.Count() > 0)
E028
EQ29
               using (EntityCommand cmd = new EntityCommand())
E030
EQ31
                 cmd.CommandText = "ExternalOrdersEntities.uspInboundQueueDelete";
                 cmd.CommandType = CommandType.StoredProcedure;
EQ32
EQ33
                 EntityParameter param = new EntityParameter();
EQ34
                 param. Value = orderNum;
E035
                 param.ParameterName = "orderNum";
EQ36
                 cmd.Parameters.Add(param);
EQ37
                 ExecuteCommandProcedure(cmd):
E038
EQ39
E040
             else
EQ41
E042
               OrderNotFoundException ex = new OrderNotFoundException();
                                                                                    s - Born to Learn
EQ43
               ex.OrderNum = orderNum;
E044
               ex.ExceptionMessage = "Order not found...Cannot delete";
EQ45
```

ExternalQueue\ProcessedOrderController.cs

```
PC01 using System;
PC02 using System.Collections.Generic;
PC03 using System.Ling;
PC04 using System.Runtime.Caching;
PC05 using System.Web.Myc;
PCO6 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.ProccessedOrder> orders = new List<ProccessedOrder>();
PC19
             return View(orders);
PC20
PC21
PC22
        private ObjectCache cache {get { return MemoryCache.Default; }}
PC23
PC24
PC25
        public ActionResult GetVendors()
PC26
PC27
            List<Entities.Vendor> vendors = cache.Get
("vendorKey") as List<Entities.Vendor>;
PC28
            if (vendors == null)
PC29
              using (var context = new ProcessedOrders())
PC30
PC31
PC32
                vendors = context.Vendors.ToList();
PC33
PC34
PC35
PC36
            return View(vendors);
PC37
         3
PC38
                                                                                   to Learn
PC39
          private CacheItemPolicy GetVendorPolicy()
PC40
PC41
            CacheItemPolicy vendorPolicy = new CacheItemPolicy();
```

```
OrderProcessor\InboundQueueController.cs
ICO1 using System;
ICO2 using System.Collections.Generic;
ICO3 using System.Web.Mvc;
ICO4 using OrderProcessor.Entities;
ICO5 using ExternalQueue.Entities:
ICO6 using System.ServiceModel;
ICO7 using System.Collections;
ICO8 using ExternalQueue.Helpers;
ICO9 using OrderProcessor.Helpers:
IC10 using System.Ling:
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 = gService.GetExternalOrder(orderNum);
IC26
           if (externalOrder != null)
IC27
             using (var context = new ProcessedOrders())
IC28
IC29
IC30
               ProccessedOrder order = new ProccessedOrder();
               order.OrderNum = externalOrder.OrderNum;
IC31
IC32
               order.Value = Convert.ToDouble(externalOrder.OrderValue);
               order.VendorID = Convert.ToInt32(externalOrder.VendorId);
IC33
IC34
               order.ProcessedDateTime = DateTime.Now;
IC35
               context.ProccessedOrders.Add(order);
IC36
               context.SaveChanges();
IC37
IC38
             gService.DeleteExternalOrder(orderNum);
IC39
           return RedirectToAction("GetQueueItems");
IC40
IC41
                                                                                        b Learn
IC42
IC43
         public ActionResult ViewShippingInfo(int orderNum)
IC44
```

OrderUpload\IUploadCallbackService.cs

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

OrderUpload\UploadCallbackService.svc

```
US01 using System.ServiceModel;
US02
US03 namespace OrderUpload
US04 {
       public class UploadCallbackService : IUploadCallbackService
US05
US06
         public void UploadOrder(int orderNum)
US07
US08
US09
US10
US11 }
Shipping\IShippingService.cs
ISO1 using System.Runtime.Serialization;
ISO2 using System.ServiceModel;
IS03
IS04 namespace Shipping
IS05 {
      public interface IShippingService
IS06
IS07
IS08
IS09
IS10 }
```

Shipping\ShippingAddress.cs

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

Correct Answer: A Section: (none) Explanation

Explanation/Reference: