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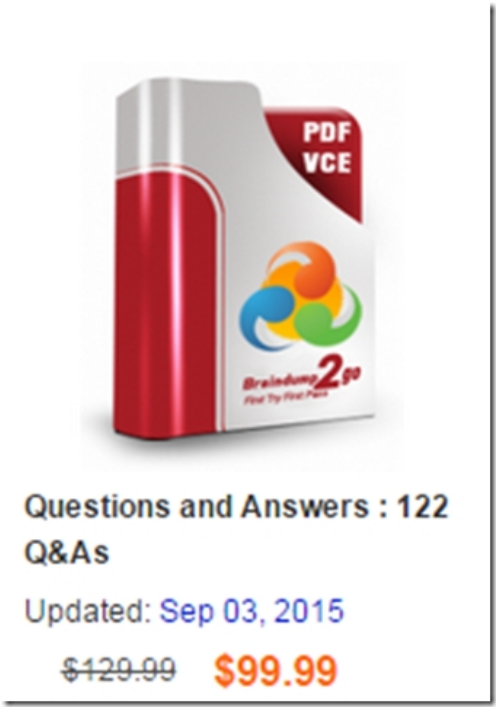


QUESTION 41You are adding a new REST service endpoint to the FlightDataController controller. It returns flights from the consolidated data sources only for flights that are late. You need to write a LINQ to Entities query to extract the required data. Which code segment should you use?

A. Option AB. Option BC. Option CD. Option D Answer: DExplanation: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 42Data 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 43You need to load flight information provided by Consolidated Messenger. Which should you use? A. SQL Server Data Transformation Services (DTS)B.

EntityTransaction and EntityCommandC. Office Open XMLD. OleDbConnection and OleDbDataReader Answer: D QUESTION 44Drag and Drop QuestionYou 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="AS24">
    <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.)

Answer:

QUESTION 45You 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. Option AB. Option BC. Option CD. Option D Answer: D QUESTION 46Historical 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 keyD. 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 47Transformed 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 XStreamingElement("Flights", ConvertToHistoricalFlight(x).Descendants()));
data[airline].WriteTo(responseWriter);
```

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


A. Option AB. Option BC. Option CD. Option D Answer: DExplanation:
http://msdn.microsoft.com/en-us/library/system.xml.linq.xstreamingelement.aspx
http://msdn.microsoft.com/en-us/library/bb551307.aspx QUESTION 48Errors 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", Flig
if (result.Count() > 5)
{
  result.AsNoTracking();
  return -1;
}
return 0;
```

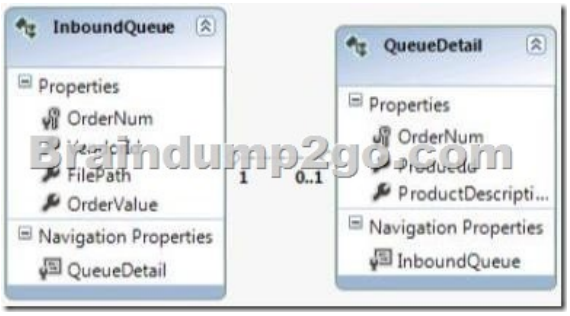
B.
```
try
{
  return base.SaveChanges();
}
catch (EntityCommandExecutionException ex)
{
  if (ex.Data.Keys.Cast<int>().Any(x => IsTransient(x)))
  {
    return 5 & SaveChanges();
  }
  return -1;
}
```

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

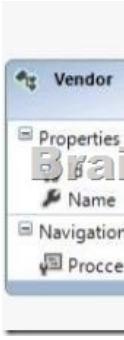
D.
```
var exception = new EntitySqlException();
while (exception.HResult != 0 && exception.Data.Count < 5)
{
  try
  {
    return base.SaveChanges();
  }
  catch (EntitySqlException ex)
  {
    if (IsTransient(ex.HResult))
    {
      exception = ex;
    }
  }
}
return base.SaveChanges();
```


A. Option AB. Option BC. Option CD. Option D Answer: CExplanation: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 -

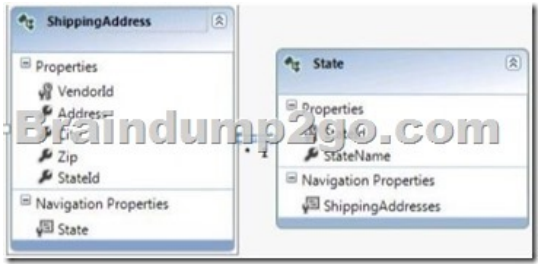
QUESTION 63)BackgroundYou are developing an ASP.NET MVC application in Visual Studio 2012 that will be used to process orders.Business RequirementsThe application contains the following three pages.- A page that queries an external database for orders that are ready to be processed. The user can then 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 RequirementsVisual 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 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.es- ProcessedOrderController.esWCF 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.svcData 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
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.ProccessedOrder> orders = new List<ProccessedOrder>();
PC19                 return View(orders);
PC20             }
PC21         }
PC22
PC23         private ObjectCache cache {get { return MemoryCache.Default; }}
PC24
PC25         public ActionResult GetVendors()
PC26         {
PC27             var vendors = cache
("vendorKey") as List<Entities.Vendor>;
PC28             if (vendors == null)
PC29             {
PC30                 using (var context = new ProcessedOrders())
PC31                 {
PC32                     vendors = context.Vendors.ToList();
PC33
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\vendortrigger.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             var qService = new ExternalQueueClient();
IC25             var externalOrder = qService.GetExternalOrder(orderNum);
IC26             if (externalOrder != null)
IC27             {
IC28                 using (var context = new ProcessedOrders())
IC29                 {
IC30                     ProccessedOrder order = new ProccessedOrder();
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.ProccessedOrders.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     void UploadOrder(int orderNum);
IU09   }
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   }
```


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; }
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 49The 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 QuestionThe GetVendorPolicy() private method in the ProcessedOrderController controller is returning a CacheItemPolicy object with default values. The returned policy must expire if the external file located at C:TriggersVendorTrigger.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.)

Answer:

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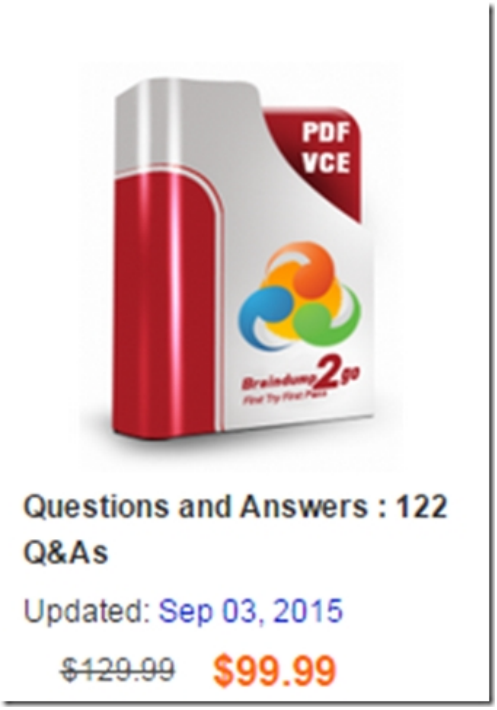

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