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QUESTION 61 Drag and Drop Question You need to modify the ExecuteCommandProcedure() method to meet the technical requirements. Which code segment should you use?

```
await connection.OpenAsync();
await command.ExecuteNonQueryAsync();
connec...
comman...
await command.QueryAsync();
```

Answer Area

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

Answer:

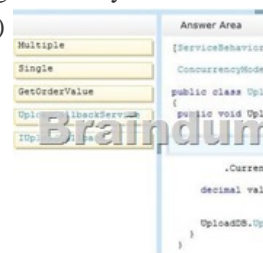
```
await connection.OpenAsync();
await command.ExecuteNonQueryAsync();
connec...
comman...
await command.QueryAsync();
```

Answer Area

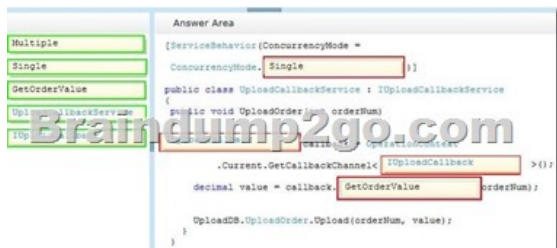
```
private async Task ExecuteCommandProcedure(EntityCommand command)
{
    using (EntityConnection connection
        = new EntityConnection("name=ExternalOrdersEntities"))
    {
        await connection.OpenAsync();
        await command.ExecuteNonQueryAsync();
    }
}
```

QUESTION 62 The GetVendors() action in the ProcessedOrderController controller is querying the database each time it is run. The GetVendors() action must query the database only if the cache is null. You need to add code to the action at line PC33 to cache the data. Which code segment can you use? (Each correct answer presents a complete solution. Choose all that apply.) A. cache.Set(new CacheItem("vendorKey", vendors), GetVendorPolicy()); B. cache.Add("vendors", vendors, new CacheItemPolicy()); C. cache.Add(new CacheItem("vendorKey", vendors), GetVendorPolicy()); D. cache.AddOrUpdateExisting("vendorKey", context, new CacheItemPolicy()); Answer: AC QUESTION 63 Drag and Drop Question The UploadOrder() method in the UploadCallbackService service is not implementing the callback behavior defined in the

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



Answer:



Case Study 3 - Online Bookstore (QUESTION 64 - QUESTION 78)BackgroundYou are developing an online bookstore web application that will be used by your company's customers. Technical RequirementsGeneral requirements:- The web store application must be an ASP.NET MVC application written in Visual Studio.- The application must connect to a Microsoft SQL database. - The GetTop100Books() method is mission critical and must return data as quickly as possible. It should take advantage of fast, forward-only, read-only methods of reading data.- The ImportBooks() method must keep a copy of the data that can be accessed while new books are being imported without blocking reads. - The Create MonthlyTotalsReport() method must lock the data and prevent others from updating or inserting new rows until complete. - The college textbook area of the web application must get data from a daily updated CSV file.- The children's book area of the web application must get data directly from a local database. It must use a connection string. It must also support access to the stored procedures on the database. Further, it is required to have strongly typed objects. Finally, it will require access to databases from multiple vendors and needs to support more than one-to-one mapping of database tables. - The cookbook functionality is contained within a client-side application that must connect to the server using HTTP and requires access to the data using JavaScript.- The BookApiController class must have a method that is able to perform ad-hoc queries using OData. The RESTful API of the bookstore must expose the following endpoints.

- Action: Get a list of all books
HTTP method: GET
Relative URI: /books
- Action: Get a book by id
HTTP method: GET
Relative URI: /books/id
- Action: Create a new book
HTTP method: POST
Relative URI: /books
- Action: Update a book
HTTP method: PUT
Relative URI: /books/id
- Action: Delete a book
HTTP method: DELETE
Relative URI: /books/id

Application Structure

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

public class BookApiController : ApiController
{
    private readonly IBookRepository bookRepository;
    public BookApiController(IBookRepository bookRepository)
    {
        this.bookRepository = bookRepository;
    }

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

    public HttpResponseMessage Post(Book value)
    {
        if (ModelState.IsValid)
        {
            bookRepository.InsertOrUpdate(value);
            bookRepository.Save();
            var response = new HttpResponseMessage(HttpStatusCode.Created);
            string uri = Url.Route(null, new { id = value.Id });
            response.Headers.Location = new Uri(Request.RequestUri, uri);
            return response;
        }
        throw new HttpResponseException(HttpStatusCode.BadRequest);
    }

    public HttpResponseMessage Put(int id, Book value)
    {

```

```
    {
        if (ModelState.IsValid)
        {
            bookRepository.InsertOrUpdate(value);
            bookRepository.Save();
            return new HttpResponseMessage(HttpStatusCode.NoContent);
        }
        throw new HttpResponseException(HttpStatusCode.BadRequest);
    }

    public void Delete(int id)
    {
        var book = bookRepository.Find(id);
        if (book == null)
        {
            throw new HttpResponseException(HttpStatusCode.NotFound);
        }
        bookRepository.Delete(id);
    }
}
```

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

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

PurchaseOrders.xml

```
<?xml version="1.0"?>
<au:PurchaseOrder
  au:PurchaseOrderNumber="99503"
  au:OrderDate="1999-10-20"
  xmlns:au="http://www.adventure-works.com">
  <au:Address au:Type="Shipping">
    <au:Name>Ellen Adams</au:Name>
    <au:Street>123 Maple Street</au:Street>
    <au:City>Mill Valley</au:City>
    <au:State>CA</au:State>
    <au:Zip>10999</au:Zip>
    <au:Country>USA</au:Country>
  </au:Address>
  <au:Address au:Type="Billing">
    <au:Name>Tal Vee</au:Name>
    <au:Street>8 Oak Avenue</au:Street>
    <au:City>Old Town</au:City>
    <au:State>PA</au:State>
    <au:Zip>19101</au:Zip>
    <au:Country>USA</au:Country>
  </au:Address>
  <au:DeliveryNotes>Please leave packages in shed by driveway.</au:DeliveryNotes>
  <au:Items>
    <au:Item au:PartNumber="872-AA">
      <au:ProductName>Lawnmower</au:ProductName>
      <au:Quantity>1</au:Quantity>
      <au:USPrice>148.95</au:USPrice>
      <au:Comment>Confirm this is electric</au:Comment>
    </au:Item>
    <au:Item au:PartNumber="926-AA">
      <au:ProductName>Baby Monitor</au:ProductName>
      <au:Quantity>2</au:Quantity>
      <au:USPrice>39.98</au:USPrice>
      <au:ShipDate>1999-05-21</au:ShipDate>
    </au:Item>
  </au:Items>
</au:PurchaseOrder>
```

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

QUESTION 64 You need to choose the appropriate data access technology for the children's book area of the web application. Which data access technology should you choose? A. Web Service B. LINQ to SQL C. ADO.NET Entity Framework D. WCF Data Services Answer: C

QUESTION 65 You need to update the CreateMonthlyTotalsReports() method to use database transactions. Which code segment should you use? A. SqlConnection.BeginTransaction(IsolationLevel.ReadCommitted); B. SqlConnection.BeginTransaction(IsolationLevel.ReadUnconwited); C. SqlConnection.BeginTransaction(IsolationLevel.Chaos); D. SqlConnection.BeginTransaction(IsolationLevel.Serializable); Answer: D

Explanation: * Scenario: The Create MonthlyTotalsReport() method must lock the data and prevent others from updating or inserting new rows until complete. * Serializable: A range lock is placed on the DataSet, preventing other users from updating or inserting rows into the dataset until the transaction is complete.

QUESTION 66 The PurchaseOrders.xml file contains all of the purchase orders for the day. You need to query the XML file for all of the shipping addresses. Which code segment should you use?

- A.

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

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

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

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

A. Option AB. Option BC. Option CD. Option D Answer: B QUESTION 67 Drag and Drop Question An XML file must be produced by the SaveFeaturedBooks() method of the Book class. The schema of the resulting XML file must be identical to the FeaturedBooks.xml file. You need to write the code to produce the file. You have the following code:

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

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

Code Segments	Answer Area
<input type="text" value="featured"/>	Target 1: <input type="text" value="Code"/>
<input type="text" value="books"/>	Target 2: <input type="text" value="Code"/>
<input type="text" value="file"/>	Target 3: <input type="text" value="Code"/>
<input type="text" value="name"/>	
<input type="text" value="file"/>	
<input type="text" value="output"/>	

Answer:

Code Segments	Answer Area
<input type="checkbox"/> featured	Target 1: <input type="text" value="featured"/>
<input type="checkbox"/> books	Target 2: <input type="text" value="title"/>
<input type="checkbox"/> title	Target 3: <input type="text" value="file"/>
<input type="checkbox"/> name	
<input type="checkbox"/> file	
<input type="checkbox"/> output	

QUESTION 68 You need to choose the appropriate data access strategy for the college textbook area of the web application. Which data access technology should you implement? A. ADO.NET B. Entity Data Model (EDM) C. WCF Data Services D. LINQ to SQL
 Answer: A
 Explanation: * Scenario: The college textbook area of the web application must get data from a daily updated CSV file. * ADO.NET reads the CSV file in a very similar way as table in database.
 QUESTION 69 You need to configure the server to self-host the bookstore's Web API application. Which code segment should you use?

A.

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

B.

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

C.

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

D.

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

A. Option A B. Option B C. Option C D. Option D
 Answer: C
 Explanation: MapHttpRoute Method Maps the specified route template. Use the option with "api/...
 QUESTION 70 You need to return the list of the top 100 books for the GetTopBooks() method. Which type should you use to retrieve the data? A. SqlDataReader B. DataSet C. DataTable D. Data View
 Answer: A
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