70-487^{Q&As}

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Developing Microsoft Azure and Web Services

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QUESTION 1

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?

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

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

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

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

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

Correct Answer: A
Explanation

Explanation/Reference:

QUESTION 80
The **GetExternalOrder()** method in the **ExternalQueueService** service is throwing a runtime error. The method must query the database for a record that matches the **orderNum** parameter passed to the method.

You need to modify the **queryString** string to retrieve the record.

With which code segment should you replace line EQ64?

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 2

DRAG DROP

You deploy an ASP.NET web service to Azure in multiple geographies. You deploy multiple instances of all web service components to each datacenter.

The service has the following load balancing needs:

1.

Prioritize web service instances hosted in U.S.-based datacenters.

2.

Route requests to web service instances in European datacenters if U.S.-based datacenters become unavailable.

3.

Ensure that administrators can independently scale request workloads to various components in the service.

4.

Implement Secure Sockets Layer (SSL) termination at the public web service endpoint.

You need to implement load-balancing.

What should you implement? To answer, drag the appropriate Azure technologies to the correct requirements. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Technologies	Answer Area	
	Requirement	**Technology**
Azure Application Gateway	Prioritize US-based datacenters.	Technology
Azure VPN Gateway	Route requests to European datacenters.	Technology
Azure ExpressRoute	Implement independent scaling.	Technology
Azure Traffic Manager	Implement SSL termination.	Technology

Correct Answer:

Technologies

Answer Area

Requirement	Technology
Prioritize US-based datacenters.	Azure Traffic Manager
Route requests to European datacenters.	Azure VPN Gateway
Implement independent scaling.	Azure ExpressRoute
Implement SSL termination.	Azure Application Gateway

Box 1: Azure Traffic Manager Azure Traffic Manager supports six traffic-routing methods to determine how to route network traffic to the various service endpoints, including Geographic: Select Geographic so that users are directed to specific endpoints (Azure, External, or Nested) based on which geographic location their DNS query originates from. This empowers Traffic Manager customers to enable scenarios where knowing a user\\'s geographic region and routing them based on that is important. Examples include complying with data sovereignty mandates, localization of content and user experience and measuring traffic from different regions.

Box 2: Azure VPN Gateway

Box 3: Azure ExpressRoute ExpressRoute is an Azure service that lets you create private connections between Microsoft datacenters and infrastructure that\\'s on your premises or in a colocation facility. ExpressRoute connections do not go over the public Internet, and offer higher security, reliability, and speeds with lower latencies than typical connections over the Internet.

Box 4: Azure Application gateway Transport Layer Security (TLS), previously known as Secure Sockets Layer (SSL), is the standard security technology for establishing an encrypted link between a web server and a browser. This link ensures that all data passed between the web server and browsers remain private and encrypted. Application gateway supports both TLS termination at the gateway as well as end to end TLS encryption.

References: https://docs.microsoft.com/en-us/azure/application-gateway/ssl-overview

https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-routing-methods

QUESTION 3

You are developing a self-hosted WCF service to display data about books. The solution contains a service named BookService that implements the IBookService interface.

You need to expose the metadata in the service host programmatically.

You have the following code:

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

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

Select and Place:

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

Correct Answer:

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

QUESTION 4

You develop an application that uses ASP.NET Core and a MySQL Database. The application will use dependency injection to register MVC controllers. The application will also import a NuGet package to support the MySQL Database.

You need to configure the application.

Where should you configure package dependencies and dependency injection? To answer, drag the appropriate locations to the correct configuration options. Each location 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Locations

- csproj
- project.json
- Startup.cs
- startupAssembly
- WebHostBuilder

Answer area

Configuration option	Location
Package dependencies	Location
Dependency Injection	Location

Correct Answer:

Locations		Answer area	
csproj		**Configuration option**	**Location**
		Package dependencies	project.json
Startup.cs		Dependency Injection	WebHostBuilder
startupAssembly			

References: https://docs.microsoft.com/en-us/aspnet/core/fundamentals/dependency-injection?view=aspnetcore-2.2

QUESTION 5

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

The Order class is shown below.

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

The OrderDetail class is shown below.

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

The Product class is shown below.

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

The Category class is shown below.

The **Category** class is shown below.

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

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

○ A.
```
var orders = db.Orders.SelectMany(o => o.OrderDetails.
    Where(od => od.Product.Category.CategoryName == categoryName)).
    Select(od => new { order = od.Order, detail = od }).
    Select(r => r.order);
```

○ B.
```
var orders = db.Orders.SelectMany(o => o.OrderDetails.
    Where(od => od.Product.Category.CategoryName == categoryName)).
    Select(od => new { order = od.Order, detail = od }).ToList().
    Select(r => r.order);
```

○ C.
```
var orderDetails = db.Orders.SelectMany(o => o.OrderDetails.
    Where(od => od.Product.Category.CategoryName == categoryName)).ToList();
List<int> orderIDs = orderDetails.Select(od => od.OrderID).ToList();
var orders = db.Orders.Where(o => orderIDs.Contains(o.OrderID));
```

○ D.
```
var orderDetails = db.Orders.SelectMany(o => o.OrderDetails.
    Where(od => od.Product.Category.CategoryName == categoryName));
List<int> orderIDs = orderDetails.Select(od => od.OrderID).ToList();
var orders = db.Orders.Where(o => orderIDs.Contains(o.OrderID));
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

Explanation: Eager loading is the process whereby a query for one type of entity also loads related entities as part of the query. Eager loading is achieved by use of the Include method. For example, the queries below will load blogs and all the posts related to each blog. using (var context = new BloggingContext()) { // Load all blogs and related posts var blogs1 = context.Blogs Include(b => b.Posts) ToList(); It is also possible to eagerly load multiple levels of related entities. References: https://msdn.microsoft.com/en-us/library/jj574232(v=vs.113).aspx

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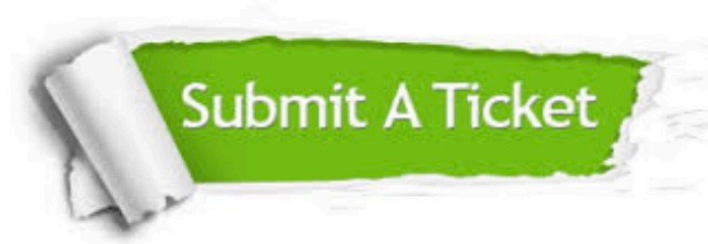
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