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Developing Windows Azure and Web Services

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QUESTION 1

You are developing a new ASP.NET MVC application that does not have an existing database.

The requirements for the application are not complete, and the SQL data model will likely change.

You need to choose an approach to visually manage a data model.

Which approach should you use?

A. Physical First

B. Database First

C. Code First

D. Model First

Correct Answer: C

QUESTION 2

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: D

QUESTION 3

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

QUESTION 4

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

Correct Answer: D

QUESTION 5

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();
```

A. B. C.

```
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();
```

D.

Correct Answer: A

QUESTION 6

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: CF

QUESTION 7

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

QUESTION 8

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

QUESTION 9

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

QUESTION 10

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

A. Use ADO.NET Entity Framework.

B. Use a Web Service.

C. Use the WCF Data Services.

D. Use LINQ to SQL.

Correct Answer: A

QUESTION 11

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

Correct Answer: A

QUESTION 12

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

The Loan class is shown below.

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

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

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

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

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

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

A. B. C. D.

Correct Answer: C

QUESTION 13

Errors occasionally occur when saving data using the FlightInfoContext ADO.NET Entity Framework context. Updates to the data are being lost when an error occurs.

You need to ensure that data is still saved when an error occurs by retrying the operation. No more than five retries should be performed.

With which code segment should you replace the body of the SaveChanges() method in the FlightInfoContext.es file?

```
A.  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. B. C. D.

Correct Answer: C

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 14

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

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

QUESTION 15

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; s
}
```

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

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

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

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

A. B. C.

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

D.

Correct Answer: A

QUESTION 16

You are developing an ASP.NET MVC application that displays a report. The report includes large images that are stored in a database. Members of the EntityClient namespace are used to access the database through the ADO.NET Entity

Framework data model.

You need to prevent memory exceptions while generating a report using the EntityDataRcader type.

Which CommandBehavior type should you use?

A. FastForwardReadOnly

B. SequentialAccess

C. SingleResult

D. SingleRow

Correct Answer: D

QUESTION 17

You are developing an ASP.NET MVC application. The application is an order processing system that uses the ADO.NET Entity Framework against a SQL Server database. It has a controller that loads a page that displays customers.

Customers are filtered on Country and, if provided, on CompanyName.

You have an Entity Framework context named db.

The Customer class is shown below.

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

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

A.

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

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

B.

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

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

C. D.

Correct Answer: C

QUESTION 18

Transformed historical flight information provided by the RemoteDataStream() method must be written to the response stream as a series of XML elements named Flight within a root element named Flights. Each Flight element has a child element named FlightName that contains the flight name that starts with the two-letter airline prefix.

You need to implement the StreamHistoricalFlights() method so that it minimizes the amount of memory allocated.

Which code segment should you use as the body of the StreamHistoricalFlights() method in the HistoricalDataLoader.es file?

```
A.  responseWriter.WriteStartElement("Flights");
    var flights = RemoteDataStream()
     .OrderBy(x => GetAirline(x.Element("FlightName")));
    var filteredFlights = flights
     .SkipWhile(x => GetAirline(x.Element("FlightName")) != airline);
    foreach (var f in filteredFlights)
    {
      var flight = ConvertToHistoricalFlight(f);
      flight.WriteTo(responseWriter);
    }
    responseWriter.WriteEndElement();
B.  responseWriter.WriteStartElement("Flights");
    var flights = RemoteDataStream().Select(x =>
    {
      if (GetAirline(x) == airline)
      {
        return ConvertToHistoricalFlight(x);
      }
      return null;
    });
    flights.TakeWhile(x =>
    {
      x.WriteTo(responseWriter);
      return x != null;
    });
    responseWriter.WriteEndElement();
C.  var data = RemoteDataStream().ToDictionary(x =>
     GetAirline(x.Element("FlightName")),
     x => new 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. B. C. D.

Correct Answer: D

http://msdn.microsoft.com/en-us/library/system.xml.linq.xstreamingelement.aspx http://msdn.microsoft.com/en-us/library/bb551307.aspx

---

QUESTION 19

The DeleteExternalOrder() method in the ExternalQueueService service is not throwing a FaultException exception as defined by the FaultContractAttribute attribute in the IExternatQueueService.cs file.

You need to throw the FaultException exception.

Which code segment can you insert at line EQ45 to achieve this goal? (Each correct answer presents a complete solution. Chose all that apply.)

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

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

C. string queryString = @"SELECT VALUE q FROM ExternalOrdersEntities.InboundQue
       WHERE q.OrderNum = @orderNum";

D. string queryString = @"SELECT VALUE FROM ExternalOrdersEntities.InboundQueue
       WHERE OrderNum = @orderNum";
```

A. B. C. D.

Correct Answer: C

QUESTION 20

You are developing an ASP.NET MVC application.

Deployment administrators do not have access to Visual Studio 2102, 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

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