

### Exam with EF, AZURE, SignalR

1. How many types of Data Access Technology? - **Three**
2. Which of the following advantage is true?
  - **DataReader** produces faster results than using a DataAdapter.
3. Which of the following does provide multiple asynchronous methods -- **DataReaders**
4. **DataSet** is also an expensive object with a large memory footprint.
5. Which of the following came first?
  - **LINQ-to-SQL** was one of the first major Microsoft initiatives to build an ORM tool.
6. The default mapping strategy, called **Table per Hierarchy (TPH)**.
7. In anObjectContext scenario, you have **three** primary options.
8. Which of the following technique considered as object-relational mapping? -- **LINQ-to-SQL**
9. Older versions of EF did not have **DbContext**.
10. The ContextOptions class has **five** primary properties.
11. The ObjectContext entities of significant interest inherit from the **EntityObject** Class
12. Entity set correspondent for **Table**
13. Entity correspondent for **Row**
14. The name of the connection string (which you'll add to the Web.config file later) is passed in to the **constructor**.
15. If we don't need user login – Set **No Authentication**
16. Modern versions of EF works with **DbContext**
17. Navigation properties are typically defined as virtual so that they can take advantage of certain Entity Framework functionality such as **lazy loading**.
18. **Set an attribute on the context element: disableDatabaseInitialization="true"**
19. To be well formed XML -**Elements that are opened must be closed and must be closed in the order they were opened.**
20. To see the test data that the **Seed method** inserted.
21. For each entity type, the code creates a collection of new entities, adds them to the appropriate **DbSet** property, and then saves the changes to the database.
22. The question mark represents the **nullable** Property.
23. Each entity will be decorated with **three** specific attributes.
24. Which of the following attribute is not for ObjectContext Entity? – **ServiceContract** Attribute.
25. You need to return all questions that have an id greater than 5. Which query should you use?  
**http://servicehost/ExamPrepService.svc/Questions?\$filter=Id gt 5**
26. You are working with an EDM and suspect there's a problem with the mappings. Which file should you look at to see the underlying code? – **MSL file**
27. Which of the following ORM tool? -- **LINQ**
28. The ValidateAntiForgeryToken attribute helps prevent cross-site request forgery attacks. It requires a corresponding **Html.AntiForgeryToken()** statement in the view .
29. Original Web Services implementation (.asmx) to WCF, service names now end in the **.svc extension**.
30. The name (WCF) was originally **ADO.NET Data Services** and has since been changed to WCF Data Services.
31. Which one is true? -- **DataAdapter actually uses a DataReader to retrieve data.**
32. Entity property that is named **ID** is recognized as primary key properties.
33. Json is built on **two** fundamental mechanisms.
34. Which of the following is of JSON fundamentals – **Both a and b** (name/value pair of data, An ordered list of values)
35. How to install EntityFramework? --- **Install-Package EntityFramework**
36. **Interceptors** enable you to build in quite sophisticated business logic.
37. Navigation properties are defined as List of entities like ICollection<T>? – **Because a navigation property can hold multiple entities.**

38. How do you Specify singular table names -- **The modelBuilder.Conventions.Remove statement in the OnModelCreating method**
39. ObjectCache can take **Key/Value** Pair Parameter.
40. If you wanted the database to be created in your App\_Data folder, you could add **AttachDBFilename=|DataDirectory|\ContosoUniversity1.mdf to the connection string.**
41. System.Web.Caching.CacheItemPriority enumeration values Default is **Normal**
42. Which of the following is not ObjectContext Options – **Upgrade Approach**
43. As an alternative to setting the initializer in the Web.config file is to do it in code by **adding a Database.SetInitializer statement to the Application\_Start** method in in the Global.asax.cs file.
44. Which is not the mechanism for adding items into the CacheInstance  
- **Add(Object value, DateTimeOffset, absoluteExpiration)**
45. It's a security best practice to use the **Include** parameter with the Bind attribute to whitelist fields. Which is more secure? – **Include.**
46. Which one more powerful approach? -**horizontal scalability**
47. An HTTP operation is based on -----? -**Request-response schema.**
48. ----- Basically consists in making periodic check? – **Polling**
49. When server takes initiative to send information to client rather than periodic check? -**Polling.**
50. Which organization defines Websocket? -**W3C and IETF.**
51. Which of this opens a two way channel to client & Server? -**WebSocket.**
52. Which protocols is used by Chat room? –**IRC**
53. Which technique opens a permanent connection? -**Forever Frame.**
54. How many abstraction levels does OWIN gives? – **2**
55. Which one is the Low Level of Abstraction? -**Persistent Connection.**
56. Which abstraction level programming model similar to RCP? - **Hub**  
*The second level of abstraction, based on components called hubs, is much further away from the underlying connections and protocols, offering a very imperative programming model similar to RPC*
57. How many agents the OWIN standard distinguishes? -**Five**  
*The OWIN standard distinguishes five main agents that make up the chain of responsibilities needed to process requests coming from a client.*
58. Which is not an agents that make up the chain of responsibilities needed to process requests coming from a client? -**Web Services**  
*Host, Server, Middleware, Web framework, Web application*
59. To use SignalR which minimum version of .net framework is mandatory? - **.Net 4.5**
60. **Katana** is an open source project created by Microsoft and distributed under the Apache 2.0 license, which contains a set of components that facilitate creating and executing web applications based on the **OWIN** specification.