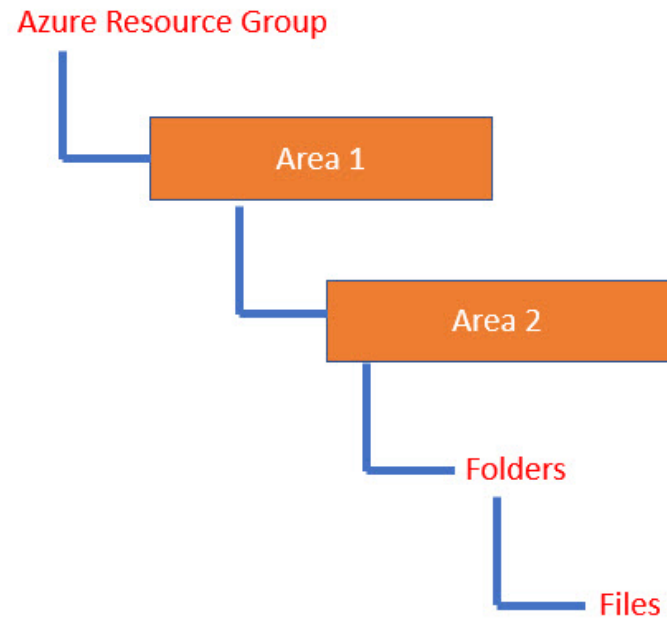


PRACTICE TEST 2

Answer Key

Question 1: Skipped

You have an Azure Data Lake Storage account. You need to assign the appropriate levels in the hierarchy given below



Which of the following will come in Area 1?

☒ Azure Storage account

(Correct)

☐ File share

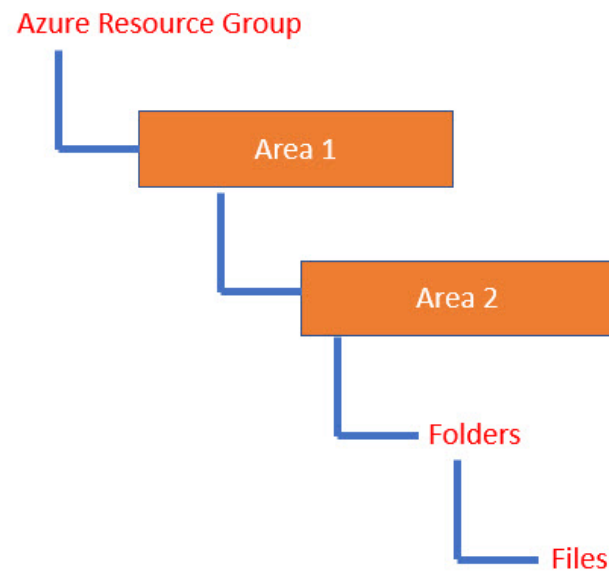
☐ File system

Explanation

First you would define a storage account.

Question 2: Skipped

You have an Azure Data Lake Storage account. You need to assign the appropriate levels in the hierarchy given below



Which of the following will come in Area 2?

☐ Azure Storage account

☐ File share

☐ File system

☒ Container

(Correct)

Explanation

In Azure Data Lake storage, you define a container for the objects

Question 3: Skipped

Which of the following do you need to configure in an Azure Storage account to support both security at a folder level and atomic directory manipulation?

☒ Enable the hierarchical namespace (Correct)

☐ Set Account kind to BlobStorage

☐ Set Performance to Premium

☐ Set Replication to Read-access geo-redundant storage

Explanation

You need to set the hierarchical namespace. This is a feature of Azure Data Lake storage.

Question 4: Skipped

Your company has to design a data store that will be used to store data from Internet connected temperature sensors. The collected data needs to be used to analyze temperature trends. Which of the following would you choose as the data store type?

☐ Relational

☐ Columnar

☐ Graph

☒ Time series

(Correct)

Explanation

Here you would be recording temperature over time. Hence its best to store the data in a time series format.

Question 5: Skipped

Which of the following is a benefit of the Azure Cosmos DB Table API when compared to Azure Table storage?

- ☐ Azure Cosmos DB Table API supports partitioning
- ☐ Azure Cosmos DB Table API provides resiliency if an Azure region fails
- ☐ Azure Cosmos DB Table API provides a higher storage capacity
- ☒ Azure Cosmos DB Table API supports a multi-master model (Correct)

Explanation

Only Azure Cosmos DB supports the multi-master model.

Question 6: Skipped

You need to map the right Azure data service that can be used to store different artifacts.

Which of the following can be stored in Azure Blob storage?

☒ Image files

(Correct)

☐ Key/value pairs

☐ Relationships between employees

Explanation

You can store image files in Azure Blob storage

Question 7: Skipped

You have to state whether the following is TRUE or FALSE.

“Indexes in a relational database describe the data types in a table”

☐ TRUE

☒ FALSE

(Correct)

Explanation

The Indexes are used to improve the reading of data in the table

Question 8: Skipped

You have to state whether the following is TRUE or FALSE.

“A database view is a virtual table whose content is defined by a query”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes ,a view is based on a query. It's like a virtual table.

Question 9: Skipped

Which of the following are benefits of using the Azure SQL Database service?
Choose 2 answers from the options given below

☐ Complete control over backup and restore processes

☒ Access to the latest features (Correct)

☐ In-database machine learning services

☒ Reduced administrative effort for managing the server infrastructure (Correct)

Explanation

Here you get access to the latest features. It also reduces the administrative overhead.

Question 10: Skipped

A company needs to ensure that an application hosted on an Azure virtual machine can connect to the Azure SQL Database without the need to expose the database to internet. Which of the following can be used for this requirement?

☐ Azure DNS

☐ Azure Application Gateway

☒ Azure Private link

(Correct)

☐ Azure Traffic Manager

Explanation

Azure Private Link allows your virtual machines to securely connect to the Azure SQL databases via Private IP addresses.

Question 11: Skipped

You have to deploy a data store for an application. The data store needs to be a relational database that supports Online Transaction Processing (OLTP). Which of the following can be used for this requirement?

☐ Azure Cosmos DB

☐ Azure Synapse Analytics

☒ Azure SQL Database

(Correct)

Explanation

Azure SQL Database is a relational database system

Question 12: Skipped

You have to state whether the following is TRUE or FALSE.

“If you have a platform as a service database in Azure, you are responsible for applying the operating system updates”

☐ TRUE

☒ FALSE

(Correct)

Explanation

Here the patching of the system is maintained by Azure.

Question 13: Skipped

You have to state whether the following is TRUE or FALSE.

“If you have a platform as a service database in Azure, backups are performed automatically”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes , the backups are taken automatically by the service

Question 14: Skipped

You have to state whether the following is TRUE or FALSE.

“If you have a platform as a service database in Azure, you are responsible for upgrading the database engine”

☐ TRUE

☒ FALSE

(Correct)

Explanation

Here the database engine upgrade will be handled by the service itself.

Question 15: Skipped

You created an Azure SQL database. You were accessing the database from your workstation from the Internet. Your workstation then changed its IP address and now you cannot access the database anymore. Which of the following could be the cause of the issue?

☒ A database-level firewall (Correct)

☐ Role-based access control (RBAC)

☐ Dynamic Host Configuration Protocol (DHCP)

☐ Domain Name Service (DNS)

Explanation

Here you need to ensure you add a rule to the database-level firewall for access via the new client IP address.

Question 16: Skipped

When you initially create an Azure SQL Database, which of the following can always be used to connect to the database?

☐ The Azure Active directory/ (Azure AD) account that created the database

☐ The Azure Active Directly Azure AD administrator account

☐ The sa account

☒ The server admin login account of the logical server (Correct)

Explanation

When you create the database, you can use the server admin login to connect to the database always.

Question 17: Skipped

You have to state whether the following is TRUE or FALSE.

“Azure Data Studio can be used to query an Azure SQL Database from a device that runs macOS”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes, Azure Data Studio can be used across various platforms.

Question 18: Skipped

You have to state whether the following is TRUE or FALSE.

“Microsoft SQL Server Management Studio enables users to create and use SQL notebooks”

☐ TRUE

☒ FALSE

(Correct)

Explanation

SQL Notebooks are available in Azure Data Studio

Question 19: Skipped

You have to state whether the following is TRUE or FALSE.

“Azure Data Studio can be used to restore a database”

☒ TRUE

(Correct)

☐ FALSE

Explanation

This is possible with Azure Data Studio. The following link can be used as a reference

<https://docs.microsoft.com/en-us/sql/azure-data-studio/tutorial-backup-restore-sql-server?view=sql-server-ver15>

Question 20: Skipped

Which of the following is a benefit of hosting a database on an Azure SQL Managed instance when compared to an Azure SQL database?

☒ Native support for cross-database queries and transactions (Correct)

☐ Built-in high availability

☐ System-Initiated automatic backups

☐ Support for encryption at rest

Explanation

If you are looking for native support for your existing SQL Server workloads, you can consider using Azure SQL Managed Instances.

Question 21: Skipped

You have a table named Sales that contains the following data

SalesDate	SalesAmount	ProductID
4-Dec-19	\$2,000	1
5-Dec-19	\$40	2
5-Dec-19	\$2,300	1
6-Dec-19	\$40	3
6-Dec-19	\$200	4

You have to query the table to return the average sales amount per day. The output must be as per the following results

SalesDate	AVG(SalesAmount)
4-Dec-19	\$2,000
5-Dec-19	\$1,170
6-Dec-19	\$120

You need to complete the following query for this requirement

Area 1 Salesdata, AVG(SalesAmount) FROM Sales Area 2 SalesDate

Order By SalesDate

Which of the following would come in Area 1?

☐ CREATE

☐ GROUP BY

☐ ORDER BY

☒ SELECT

(Correct)

Explanation

Here we need to use the SELECT clause to select the data from the table.

Question 22: Skipped

You have a table named Sales that contains the following data

SalesDate	SalesAmount	ProductID
4-Dec-19	\$2,000	1
5-Dec-19	\$40	2
5-Dec-19	\$2,300	1
6-Dec-19	\$40	3
6-Dec-19	\$200	4

You have to query the table to return the average sales amount per day. The output must be as per the following results

SalesDate	AVG(SalesAmount)
4-Dec-19	\$2,000
5-Dec-19	\$1,170
6-Dec-19	\$120

You need to complete the following query for this requirement

Area 1 Salesdata, AVG(SalesAmount) FROM Sales Area 2 SalesDate
Order By SalesDate

Which of the following would come in Area 2?

☐ CREATE

☒ GROUP BY

(Correct)

☐ ORDER BY

☐ SELECT

Explanation

We can use the GROUP by clause to GROUP by the sales date.

Question 23: Skipped

You have to state whether the following is TRUE or FALSE.

“Azure SQL Managed Instance supports cross-database queries”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes , Azure SQL Managed Instance supports cross-database queries

Question 24: Skipped

You have to state whether the following is TRUE or FALSE.

“Azure SQL Managed Instance supports user-created backups”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes , Azure SQL Managed Instance supports user created backups.

Question 25: Skipped

You have to state whether the following is TRUE or FALSE.

“Azure SQL Managed Instance can be restored to SQL Server on an Azure virtual machine”

☐ TRUE

☒ FALSE

(Correct)

Explanation

Backups from a managed instance can only be restored to another managed instance. They cannot be restored to a SQL Server instance or to Azure SQL Database.

Question 26: Skipped

A set of developers have computers that run Windows 10 and Ubuntu Desktop. They need to connect and query an Azure SQL database from their computer. The developers require code assistance features such as IntelliSense. Which of the following can be used for this requirement?

☒ Azure Data Studio

(Correct)

☐ Microsoft SQL Server Management Studio

☐ Azure Data Explorer

Explanation

This is provided by Azure Data Studio

Question 27: Skipped

Which of the following is correct when it comes to Transparent Data Encryption?

- ☐ Transparent Data Encryption encrypts a column to protect data at rest and in transit
- ☐ Transparent Data Encryption encrypts queries and their results in order to protect data in transit
- ☒ Transparent Data Encryption encrypts the database to protect data at rest (Correct)
- ☐ Transparent Data Encryption encrypts the server to protect data at rest

Explanation

Transparent Data Encryption is used at the database level to encrypt the data at rest.

Question 28: Skipped

Which of the following is correct when it comes to Descriptive Analytics?

- ☐ Descriptive Analytics tells you what is most likely to occur in the future
- ☒ Descriptive Analytics tells you what occurred in the past (Correct)
- ☐ Descriptive Analytics tells you which actions you can perform to affect outcomes
- ☐ Descriptive Analytics tells you why something occurred in the past

Explanation

This can tell you what actually occurred based on the data that is present

Question 29: Skipped

You have to state whether the following is TRUE or FALSE.

“Normalization involves eliminating relationships between database tables”

☐ TRUE

☒ FALSE

(Correct)

Explanation

With Normalization, you establish relationships between tables.

Question 30: Skipped

You have to state whether the following is TRUE or FALSE.

“Normalizing a database reduces data redundancy”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes, the entire idea of Normalization is to reduce redundancy.

Question 31: Skipped

You need to map the right Azure data service that can be used to store different artifacts.

Which of the following can be stored in Azure Cosmos DB Gremlin API?

☐ Image files

☐ Key/value pairs

☒ Relationships between employees

(Correct)

Explanation

You can store relationship between employees with the help of the Gremlin API.

Question 32: Skipped

You need to map the right Azure data service that can be used to store different artifacts.

Which of the following can be stored in Azure Table storage?

☐ Image files

☒ Key/value pairs

(Correct)

☐ Relationships between employees

Explanation

You can store key/value pairs with the help of Azure table storage.

Question 33: Skipped

Which of the following would you use for the following requirement?

“A graphical tool for managing Azure SQL databases and viewing SQL execution plans”

☐ Azure Data Studio

☐ Microsoft SQL Server Data Tools

☒ Microsoft SQL Server Management Studio (Correct)

☐ Microsoft Visual Studio Code

Explanation

Microsoft SQL Server Management Studio is use for managing Azure SQL databases

Question 34: Skipped

Which of the following would you use for the following requirement?

“A Microsoft SQL Server extension that supports connections to SQL Server and provides a rich editing experience for T-SQL”

☐ Azure Data Studio

☐ Microsoft SQL Server Data Tools

☐ Microsoft SQL Server Management Studio

☒ Microsoft Visual Studio Code

(Correct)

Explanation

You can use Microsoft Visual Studio Code that has a SQL Server extension for working with SQL Server databases.

Question 35: Skipped

Which of the following would you use for the following requirement?

“A lightweight editor that can run on-demand SQL queries and view and save results as text, JSON or Microsoft Excel files”

☒ Azure Data Studio

(Correct)

☐ Microsoft SQL Server Data Tools

☐ Microsoft SQL Server Management Studio

☐ Microsoft Visual Studio Code

Explanation

Azure Data Studio is a lightweight editor that can be used for these requirements.

Question 36: Skipped

Which of the following would you use for the following requirement?

“A development tool for building Azure SQL Databases, Microsoft SQL Server relational databases, SQL Server Analysis services data models, SQL Server Integration Services packages and SQL Server Reporting Services reports”

☐ Azure Data Studio

☒ Microsoft SQL Server Data Tools

(Correct)

☐ Microsoft SQL Server Management Studio

☐ Microsoft Visual Studio Code

Explanation

All of this can be achieved with the help of Microsoft SQL Server Data Tools

You can refer to the below link for further details

<https://docs.microsoft.com/en-us/sql/ssdt/download-sql-server-data-tools-ssdt?view=sql-server-ver15>

Question 37: Skipped

Which of the following is an example of Data Manipulation Language (DML)?

☒ INSERT

(Correct)

☐ DISABLE

☐ ALTER

☐ DROP

Explanation

The INSERT statement is used to insert data into a table

Question 38: Skipped

You have designed a SQL query that combines the customer data and the order data. The query includes calculated columns. You have to persist the SQL query so that other users can use the query. Which of the following should you create for this requirement?

☐ A table

☐ An index

☐ Scalar function

☒ A view

(Correct)

Explanation

You can create a view out of the query. Users can then use the view to execute the query.

Question 39: Skipped

Which of the following is used by Relational databases to enforce relationships between different tables?

☐ Collections

☐ Columns

☒ Keys

(Correct)

☐ Partitions

Explanation

You can use Foreign keys to establish relationships between tables.

Question 40: Skipped

You have to state whether the following is TRUE or FALSE.

“Platform as a service database offering in Azure require less setup and configuration effort than infrastructure as a service database offering”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes, because here the infrastructure is managed for you.

Question 41: Skipped

You have to state whether the following is TRUE or FALSE.

“Platform as a service database offering in Azure provide administrators with the ability to control and update the operating system version”

☐ TRUE

☒ FALSE

(Correct)

Explanation

In Platform as a service, the infrastructure is managed by Azure. Hence administrators don't have control over the underlying infrastructure.

Question 42: Skipped

You have to state whether the following is TRUE or FALSE.

“All platform as a service database offering in Azure can be paused to reduce costs”

☐ TRUE

☒ FALSE

(Correct)

Explanation

This is not TRUE for all platform as a service offering. There are serverless offerings that allow you to pause the database.

This is part of the Serverless Compute tier. You can use the below link to refer more on the serverless offering.

<https://docs.microsoft.com/en-us/azure/azure-sql/database/serverless-tier-overview>

Question 43: Skipped

Which of the following is an Azure SQL database offering that supports automatic database scaling and automatic pausing of the database during inactive periods?

☐ Azure SQL Database Hyperscale

☐ Azure SQL managed instance

☒ Azure SQL Database serverless (Correct)

☐ Azure SQL Database elastic pool

Explanation

This is available as part of the serverless offering

Question 44: Skipped

You have the following query

```
INSERT INTO dbo.Products (ProductID, ProductName, Price, ProductDescription)
VALUES (1, 'Mobile' , 1000, 'Mobile device')
```

Which of the following is the right type that maps to dbo.Products?

☐ A column

☐ A database

☒ A table

(Correct)

☐ An index

Explanation

Here we are referring to the table

Question 45: Skipped

You have the following query

```
INSERT INTO dbo.Products (ProductID, ProductName, Price, ProductDescription)
VALUES (1, 'Mobile' , 1000, 'Mobile device')
```

Which of the following is the right type that maps to ProductName?

☒ A column

(Correct)

☐ A database

☐ A table

☐ An index

Explanation

Here we are referring to the column in the table

Question 46: Skipped

You have to state whether the following is TRUE or FALSE.

“A relational database table contains columns and rows”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes, a relational database table contains rows and columns

Question 47: Skipped

You have to state whether the following is TRUE or FALSE.

“Normalizing improves data integrity”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes, with the help of primary and foreign keys, you can maintain data integrity

Question 48: Skipped

Which of the following is correct when it comes to an extract, transform and load process?

- ☐ An extract , transform and load process requires a matching schema in the data source and the data target
- ☐ An extract , transform and load process requires a target data store powerful enough to transform the data
- ☒ An extract , transform and load process requires data that is fully processed before being loaded to the target data store (Correct)
- ☐ An extract , transform and load process requires that the data target be a relational database.

Explanation

In ETL (Extract, Transform and Load), you have to ensure that data is processed before it can be loaded into the destination.

Option A is incorrect because in the transformation, you can combine columns from the source, skip columns. Hence the schema does not need to be the same.

Option B is incorrect because here a separate transformation engine performs the transformation itself.

Option D is incorrect because this is not an absolute requirement

Question 49: Skipped

Which of the following is correct when it comes to batch processing?

- ☐ In batch processing , data is always inserted one row at a time
- ☐ In batch processing , data is processed in real-time
- ☒ In batch processing , latency is expected (Correct)
- ☐ In batch processing , processing can only occur serially

Explanation

In batch processing you can expect latency in getting the batch data itself to be processed.

Option A is incorrect because in batch processing , multiple rows can be inserted at a time.

Option B is incorrect because data is processed in real-time in stream processing and NOT batch processing.

Option D is incorrect because jobs can occur in parallel in batch processing.

Question 50: Skipped

Which of the following is the right type of analytics when it comes to transcribing audio files?

☒ Cognitive

(Correct)

☐ Descriptive

☐ Predictive

☐ Prescriptive

Explanation

You can use the Azure Cognitive services for transcribing audio files.

You can refer to the below link for this service

<https://azure.microsoft.com/en-us/services/cognitive-services/speech-to-text/>

Question 51: Skipped

You have the following JSON document

```
1  "customer" : {
2    "first name" : "Ben",
3    "last name": "Smith",
4    "address" : {
5      "line 1" : "Address1",
6      "line 2" : "Address2",
7      "ZIP Code": "123"
8    },
9    "social media":[
10   {
11     "service": "twitter",
12     "handle":"handle1"
13   },
14   {
15     "service": "linkedin",
16     "handle":"handle2"
17   }],
18   "numbers":[
19     {
20       "type":"mobile",
21       "number":"111-222"
22     }
23   ]
24 }
```

Which of the following is the correct representation of the Customer in the JSON document?

☐ A nested array

☐ A nested object

☒ A root object

(Correct)

Explanation

The Customer is the root object in the JSON document

Question 52: Skipped

You have the following JSON document

```
1 | "customer" : {  
2 |   "first name" : "Ben",  
3 |   "last name": "Smith",  
4 |   "address" : {  
5 |     "line 1" : "Address1",  
6 |     "line 2" : "Address2",  
7 |     "ZIP Code": "123"  
8 |   },  
9 |   "social media":[  
10 |    {  
11 |      "service": "twitter",  
12 |      "handle":"handle1"  
13 |    },  
14 |    {  
15 |      "service": "linkedin",  
16 |      "handle":"handle2"  
17 |    }],  
18 |   "numbers":[  
19 |     {  
20 |       "type":"mobile",  
21 |       "number":"111-222"  
22 |     }  
23 |   ]  
24 | }
```

Which of the following is the correct representation of the Address in the JSON document?

☐ A nested array

☒ A nested object

(Correct)

☐ A root object

Explanation

This is a nested object.

Question 53: Skipped

You have the following JSON document

```
1 | "customer" : {  
2 |   "first name" : "Ben",  
3 |   "last name": "Smith",  
4 |   "address" : {  
5 |     "line 1" : "Address1",  
6 |     "line 2" : "Address2",  
7 |     "ZIP Code": "123"  
8 |   },  
9 |   "social media":[  
10 |    {  
11 |      "service": "twitter",  
12 |      "handle":"handle1"  
13 |    },  
14 |    {  
15 |      "service": "linkedin",  
16 |      "handle":"handle2"  
17 |    }],  
18 |   "numbers":[  
19 |     {  
20 |       "type":"mobile",  
21 |       "number":"111-222"  
22 |     }  
23 |   ]  
24 | }
```

Which of the following is the correct representation of the Social Media in the JSON document?

☒ A nested array (Correct)

☐ A nested object

☐ A root object

Explanation

This is a nested array.

Question 54: Skipped

Which of the following is the right term for the following?

“An object that is associated with a table that sorts and stores the data rows in the table based on their key values”

☒ A clustered index

(Correct)

☐ A FileTable

☐ A foreign key

☐ A stored procedure

Explanation

This is the index. The index can be used to easily search for data based on their key values.

Question 55: Skipped

Which of the following is correct when it comes to a relational database?

☐ A dynamic schema is required

☐ Data will be stored as key/value pairs

☐ Storing large images and videos

☒ Strong consistency guarantees are required

(Correct)

Explanation

For a relational database , you need to have strong consistency across your data.

Question 56: Skipped

You have an Azure SQL Database. You need to query a table named Products. Which of the following are requirements that need to be fulfilled to access the table? Choose 3 answers from the options given below

☐ You must be assigned the Reader role for the resource group that contains the database.

☐ You must have SELECT access to the Products table. (Correct)

☐ You must have a user in the database. (Correct)

☐ You must be assigned the Contributor role for the resource group that contains the database.

☐ Your IP address must be allowed to connect to the database. (Correct)

Explanation

Firstly, your workstation IP address must be added to the firewall rule for the Azure SQL database server to access the database

Then there must a user in the database that would actually be able to connect to the database itself.

Then the user must also be granted the required privileges to use the SELECT statement

Question 57: Skipped

You have to state whether the following is TRUE or FALSE.

“You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases ”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes, you can use an existing SQL Server license to get a discount on Azure SQL databases.

Question 58: Skipped

Which statement is an example of Data Definition Language (DDL)?

☐ SELECT

☐ JOIN

☐ MERGE

☒ CREATE

(Correct)

Explanation

The CREATE statement is used to create a database

Question 59: Skipped

You have to ensure that users use multi-factor authentication when connecting to an Azure SQL database. Which type of authentication would you implement for this requirement?

☐ Service principal authentication

☒ Azure Active Directory (Azure AD) authentication

(Correct)

☐ SQL authentication

☐ Certificate authentication

Explanation

For Multi-Factor authentication, you need to use Azure Active Directory.

Question 60: Skipped

Which of the following statement is correct about Azure SQL database?

- ☐ By default , each Azure SQL database is protected by a network security group
- ☒ By default , each Azure SQL database is protected by a server level firewall (Correct)
- ☐ By default , each Azure SQL database is protected by Azure Firewall
- ☐ By default , each Azure SQL database is protected by Azure Front Door

Explanation

An Azure SQL Database is protected by a server-level firewall.

Question 61: Skipped

You have to design and model a database by using a graphical tool that supports object-oriented offline database development. Which of the following could you use for this requirement?

☒ Microsoft SQL Server Data Tools (SSDT) (Correct)

☐ Microsoft SQL Server Management Studio (SSMS)

☐ Azure Databricks

☐ Azure Data Studio

Explanation

The SQL Server Data tools can be used for offline database development

Question 62: Skipped

You have to map the relevant security component to the appropriate scenario
Which of the following would you map for the following scenario?

“Prevent access to an Azure SQL database from another network”

☐ Authentication

☒ Firewall

(Correct)

☐ Encryption

Explanation

Here the Firewall can be used to prevent access from another network.

Question 63: Skipped

You have to map the relevant security component to the appropriate scenario

Which of the following would you map for the following scenario?

“Support Azure Active Directory sign-ins to an Azure SQL database”

☒ Authentication

(Correct)

☐ Firewall

☐ Encryption

Explanation

This is related to authentication. You can use Active Directory for authentication onto Azure SQL databases.

Question 64: Skipped

You have to map the relevant security component to the appropriate scenario

Which of the following would you map for the following scenario?

“Ensure that sensitive data never appears as plain text in an Azure SQL database”

☐ Authentication

☐ Firewall

☒ Encryption

(Correct)

Explanation

This is related to Encryption.

Question 65: Skipped

You have to state whether the following is TRUE or FALSE.

“Azure Table storage supports multiple write regions”

☐ TRUE

☒ FALSE

(Correct)

Explanation

You can only have one write region when it comes to Azure table storage

Question 66: Skipped

You have to state whether the following is TRUE or FALSE.

“The Azure Cosmos DB Table API supports multiple read replicas”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes, you can have multiple read regions for Azure Cosmos DB accounts.

Question 67: Skipped

You have to map the relevant data store type to the appropriate scenario

Which of the following would you map for the following scenario?

“Storage of Application user data and their default language”

☐ Graph

☐ Object

☒ Key/value

(Correct)

Explanation

You can use the Key/value data store. The username can be the key and the value can be the default language.

Question 68: Skipped

You have to map the relevant data store type to the appropriate scenario
Which of the following would you map for the following scenario?

“Medical images and their associated metadata”

☐ Graph

☒ Object

(Correct)

☐ Key/value

Explanation

Here the images can be stored as objects. You can use Azure Storage Accounts – Blob service for this requirement.

Question 69: Skipped

You have to map the relevant data store type to the appropriate scenario

Which of the following would you map for the following scenario?

“Employee data that shows the relationships between employees”

☒ Graph

(Correct)

☐ Object

☐ Key/value

Explanation

You can use a graph database to show the relationships between employees.

Question 70: Skipped

You have an Azure Cosmos DB account of the Core SQL API. Which of the following are settings that can be configured at the container level? Choose 2 answers from the options given below

☐ The throughput

(Correct)

☐ The read region

☐ The partition key

(Correct)

☐ The API

Explanation

You can configure the throughput and the partition key for the container.

Question 71: Skipped

Which of the following is projected as the container resource type when using the Azure Cosmos DB Gremlin API?

☒ Graph

(Correct)

☐ Table

☐ Partition key

☐ Document

Explanation

The Gremlin API is used to create graph-based databases.

Question 72: Skipped

Which of the following is an example of a streaming workload?

☐ Sending transactions that are older than a month to an archive

☐ Sending transactions daily from point of sale (POS) devices

☒ Sending telemetry data from edge devices **(Correct)**

☐ Sending cloud infrastructure metadata every 30 minutes

Explanation

Telemetry data is sent instantaneously from edge devices and hence this is an example of streaming data.

Question 73: Skipped

Which of the following is TRUE when it comes to batch workloads?

☒ Batch workloads process data in memory, row-by-row (Correct)

☐ Batch workloads collect and process data at most once a day

☐ Batch workloads process data as new data is received in real-time

☐ Batch workloads collect data and then process the data when a condition is met

Explanation

Normally batch workloads are used to process data row-by-row

Option B is incorrect because you can have batch jobs running multiple times a day

Option C is incorrect since this is an example of processing streaming data

Option D is incorrect since you don't need to process data necessarily based on any condition.

Question 74: Skipped

You have to state whether the following is TRUE or FALSE.

“Processing salary payments once a month is an example of a batch workload”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Yes, since this process happens at a certain interval

Question 75: Skipped

You have to state whether the following is TRUE or FALSE.

“A wind turbine that sends 50 sensor readings per second is an example of a streaming workload”

☒ TRUE

(Correct)

☐ FALSE

Explanation

Since this is sending data continuously in real-time, this is an example of a streaming workload.

Question 76: Skipped

You have to state whether the following is TRUE or FALSE.

“A home electricity meter that sends readings once a day to an energy provider is an example of a streaming workload ”

☐ TRUE

☒ FALSE

(Correct)

Explanation

Since the data is only being sent once , this is not in real-time , hence this is not a streaming workload.

Question 77: Skipped

You have to gather real-time telemetry data from a mobile application. Which of the following describes the type of workload in this scenario?

☐ Online Transaction Processing (OLTP)

☐ Batch

☐ Massively parallel processing (MPP)

☒ Streaming

(Correct)

Explanation

This is an example of a streaming workload.

Question 78: Skipped

You have an Azure Synapse Analytics SQL pool. The pool is used every night for 6 hours. You have to consider minimizing the cost of the SQL pool during idle times but ensure that the data remains intact. Which of the following can be used for this requirement?

☐ Scale down the data warehouse units (DWUs).

☒ Pause the pool.

(Correct)

☐ Create a user-defined restore point.

☐ Delete the pool

Explanation

You can pause the pool to save on costs. The data would still stay intact

Question 79: Skipped

Which of the following initiates the execution of an Azure Data Factory pipeline?

☐ a control flow

☒ a trigger

(Correct)

☐ a parameter

☐ an activity

Explanation

The pipeline can run a schedule, or demand , or on a trigger.

Question 80: Skipped

You have to map the right activity to the appropriate Azure Data Factory activities. Which of the following would be mapped to the "Copy" activity in Azure Data Factory?

☐ Control

☒ Data movement

(Correct)

☐ Data transformation

Explanation

This is linked to the data movement activity

Question 81: Skipped

You have to map the right activity to the appropriate Azure Data Factory activities.
Which of the following would be mapped to the "Mapping data flow" activity in Azure Data Factory?

☐ Control

☐ Data movement

☒ Data transformation

(Correct)

Explanation

This is linked to the data transformation activity

Question 82: Skipped

You have to map the right activity to the appropriate Azure Data Factory activities. Which of the following would be mapped to the “Until” activity in Azure Data Factory?

☒ Control

(Correct)

☐ Data movement

☐ Data transformation

Explanation

This is linked to the Control activity

Question 83: Skipped

Which of the following are characteristics of an Online Transaction Processing (OLTP) workload? Choose 3 answers from the options given below

☐ denormalized data

☒ heavy writes and moderate reads

(Correct)

☐ light writes and heavy reads

☒ schema on write

(Correct)

☐ schema on read

☒ normalized data

(Correct)

Explanation

For OLTP workloads, you gave

- 1) A lot of writes on the data and moderate reads. You will have more reads in OLAP workloads
- 2) Here the schema is defined before-hand for the database table
- 3) Here the data will be normalized

Question 84: Skipped

Which of the following is used in an Azure Data Factory pipeline to orchestrate activities that depend on the output of other pipeline activities?

☒ A control flow

(Correct)

☐ A dataset

☐ A linked service

☐ An integration runtime

Explanation

You can use a control flow for this requirement

Question 85: Skipped

You have a quality assurance application that reads data from a data warehouse. Which type of processing does the application use?

☐ Online Transaction Processing (OLTP)

☐ Batch processing

☒ Online Analytical Processing (OLAP) (Correct)

☐ Stream processing

Explanation

For data warehouses, this would relate to Online Analytical Processing (OLAP)

Question 86: Skipped

Can batch processing be used to output data to a file store?

☒ Yes

(Correct)

☐ No

Explanation

Yes, this is possible. For example, you can use the Azure Data Factory service to output data to files in an Azure storage account.

Question 87: Skipped

Can batch processing be used to output data to a NoSQL database?

☒ Yes

(Correct)

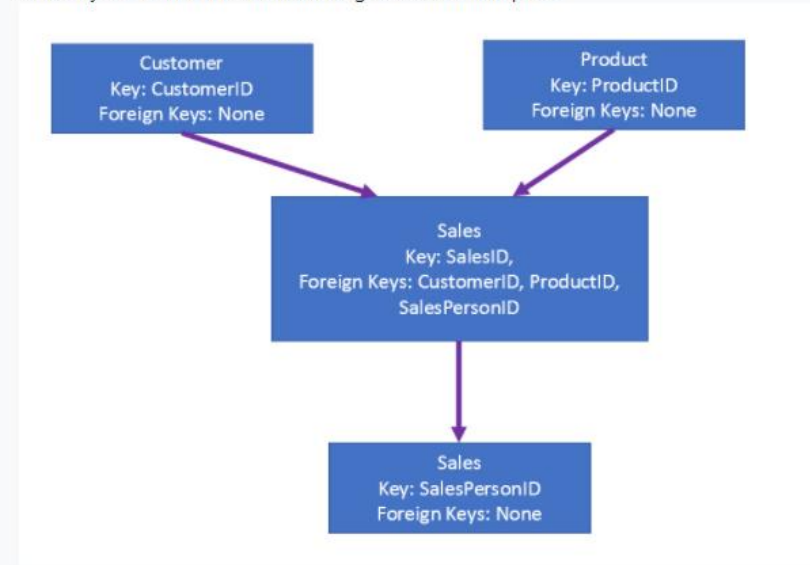
☐ No

Explanation

Yes, this is possible. For example, you can use the Azure Data Factory service to output data onto an Azure Cosmos DB account.

Question 88: Skipped

One of your teams has the following data model in place



Which of the following is the representation of this data model?

☐ Transactional model

☒ Star schema

(Correct)

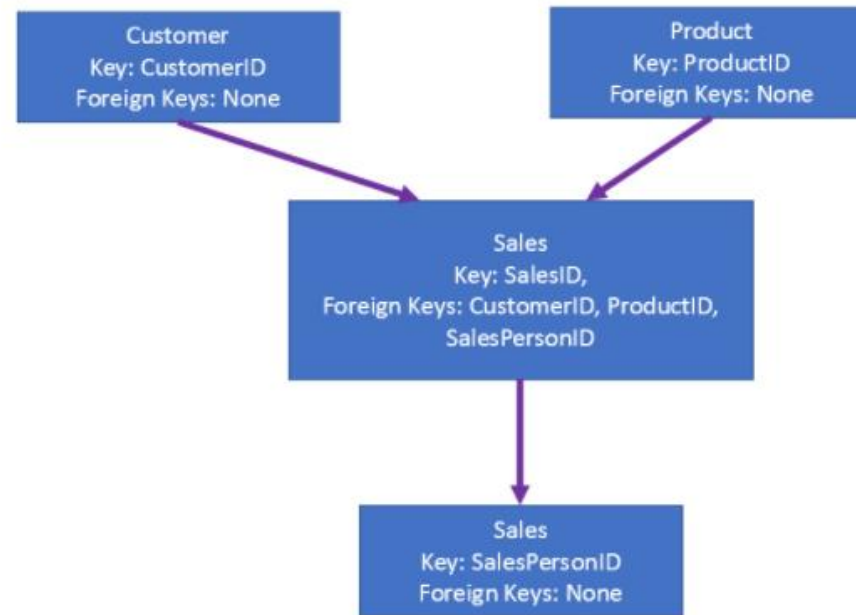
☐ Snowflake schema

Explanation

This is a representation of a star schema.

Question 89: Skipped

One of your teams has the following data model in place



Which of the following is the table type for the Customer table?

☐ Fact

☒ Dimension

(Correct)

☐ Bridge

Explanation

Here the Customer table is the Dimension table.