

Practice Test 2

Question

Domain: Describe how to work with relational data on Azure

Which of the following is not true about a relational table?

☐ A.

Values in the table are atomic

☐ B.

All the rows in the table are unique

☐ C.

The sequence of rows matters in the table.

☐ D.

Each column needs to have a unique name.

Question

Domain: Describe how to work with relational data on Azure

Which of the following statement is not true about Views in Relational database?

☐ A.

A view is a virtual table that has the content defined by a query.

☐ B.

A view can be created from multiple tables, a single table or even another view

☐ C.

One of the most important use of view is to simplify, focus and customize the users' perception of the database.

☐ D.

A view is a special lookup table that the database search engine can utilize to speed up the data retrieval.

Question

Domain: Describe how to work with relational data on Azure

Statement 1: Azure SQL Database handles updating and patching the SQL Server software automatically without user involvement.

Statement 2: Azure SQL Database offers scalability that ensures that you can enhance the number of resources available to store.

Statement 3: Azure SQL Database has an important feature of point-in-time restore, through which the database can be recovered to the state of any specific point in the past.

Which of the preceding statements are true about Azure SQL database?

☐ A.

Only statement 1 and 3

☐ B.

Only Statement 2 and 3

☐ C.

Only statement 1 and 2

☐ D.

All statements 1, 2 and 3

Question

Domain: Describe how to work with relational data on Azure

Complete the statement.

In Azure SQL databases, transparent data encryption encrypts the ____

☐ A.

Database to protect the data in the motion

☐ B.

Server to protect the data in the motion

☐ C.

Database to protect the data at rest

☐ J.D.

Server to protect the data at rest

Question

Domain: Describe how to work with relational data on Azure

Which of the following is a DML statement?

☐ J.A.

Create

☐ J.B.

Alter

☐ J.C.

Insert

☐ J.D.

Drop

Question

Domain: Describe how to work with relational data on Azure

What is the significance of the resource governance error, "Error: 40544"?

☐ J.A.

The database has reached its size quota

☐ J.B.

The service is currently busy

☐ J.C.

Session has been terminated because you have a long-running transaction

☐ J.D.

The session has been terminated because of excessive memory usage

Question

Domain: Describe how to work with relational data on Azure

In the following SQL query:

```
INSERT INTO Students ( StudentName, StudentID, Marks, Address) VALUES ('Ram', 1501, 87, 'Delhi')
```

What are the *Students* and *Marks* respectively?

☐ A.

Column and table

☐ B.

Index and Column

☐ C.

Table and Primary key

☐ D.

Table and Column

Question

Domain: Describe how to work with relational data on Azure

Read the Statement:

Both Azure data studio and SQL Server Management Studio supports all operating systems such as Windows, macOS, and Linux.

The preceding statement is...

☐ A. **True**

☐ B. **False**

Question

Domain: Describe how to work with relational data on Azure

Complete the Sentence:

PostgreSQL has its own query language that is known as ____

☐ A.

pgsql

☐]B.

Oracle

☐]C.

SQL

☐]D.

MYSQL

Question

Domain: Describe how to work with relational data on Azure

How many deployment options are available for *Azure Database for PostgreSQL*?

☐]A.

One

☐]B.

Two

☐]C.

Three

☐]D.

Four

Question

Domain: Describe how to work with relational data on Azure

Which of the following is not the specific feature of Azure Database for MySQL?

☐]A.

Elastic scaling

☐]B.

Automation and monitoring to streamline the management for large-scale deployments

☐ J.C.

Protecting the data with automatic backups and point-in-time store for up to 35 days

☐ J.D.

Capability of storing and manipulating geometric data, such as polygons, circles, and lines.

Question

Domain: Describe how to work with relational data on Azure

There is a Student Management System with the following “Student” table:

| Student_Name | Registration_No | Address |
|--------------|-----------------|---------|
| Rahul | 10301 | Delhi |
| Ram | 10302 | Agra |
| Shyam | 10303 | Noida |

Now, there is a need to change the name of column “Registration_No” to “Roll_No”. Which statement would you use?

☐ J.A.

UPDATE

☐ J.B.

ALTER

☐ J.C.

CREATE

☐ J.D.

INSERT

Question

Domain: Describe how to work with relational data on Azure

A relational database is used when...

☐ A.

A dynamic Schema is needed

☐ B.

Data is to be stored in non-tabular form

☐ C.

High consistency is needed.

☐ D.

There is a need to store large videos and images

Question

Domain: Describe how to work with relational data on Azure

Which of the following Azure tools describes the service(s) to be deployed in JSON (JavaScript Object Notation) format?

☐ A.

Azure Portal

☐ B.

Azure command-line interface (CLI)

☐ C.

Azure PowerShell

☐ D.

Azure Resource Manager templates

Question

Domain: Describe how to work with non-relational data on Azure

Your organization needs to design a data store that will have employees data. The data needs to be stored in the following format:

| Employee_Id | Employee_Information |
|-------------|--|
| 1001 | FName: Aron LName: Smith Email: abc@ajopo.com |
| 1002 | FirstName: Ben Last: Stokes Contact: 123-456-389 |
| 1003 | FirstName: David LastName: Hussain |

Which kind of data store would you use?

☐ A.

Document

☐ B.

Graph

☐ C.

Columnar

☐ D.

Key/Value

Question

Domain: Describe how to work with non-relational data on Azure

Read the following statement:

You should use Azure File Storage for the files that are likely to be written by multiple concurrent processes simultaneously.

Choose the correct option.

☐ A. **True**

☐ B. **False**

Question

Domain: Describe how to work with non-relational data on Azure

At which of the following levels is it possible to set the throughput for an Azure Cosmos DB account? (Select two options.)

☐ A.

Partition

☐ B.

Database

☐ C.

Container

☐ D.

Item

☐ E.

Value

Question

Domain: Describe how to work with non-relational data on Azure

Which of the following API of Azure Cosmo Database provides a graph-based view on database?

☐ A.

MongoDB API

☐ B.

Cassandra AP

☐ C.

Gremlin

☐ D.

Table API

Question

Domain: Describe how to work with non-relational data on Azure

Match the common error status code with their significance:

| Status Code | Description / Significance |
|-------------|----------------------------|
| a) 401 | 1) Service Unavailable |
| b) 408 | 2) Too many Requests |
| c) 429 | 3) Request timed out |
| d) 503 | 4) Not authorized |

☐ J A.

a1 b2 c3 d4

☐ J B.

a3 b2 c1 d4

☐ J C.

a4 b3 c2 d1

☐ J D.

a2 b4 c3 d1

Question

Domain: Describe how to work with non-relational data on Azure

Which of the following is the right sequence for CosmosDB levels demonstrating the strongest consistency to lowest consistency (means the first level in sequence having the strongest consistency and the last level showing the least consistency)?

☐ J A.

Strong, Bounded staleness, Consistent prefix, Session, and Eventual

☐ J B.

Strong, Session, Consistent prefix, Bounded staleness, and Eventual

☐ J C.

Strong, Bounded staleness, Session, Consistent prefix and Eventual

☐ D.

Strong, Bounded staleness, Session, Eventual and Consistent prefix

Question

Domain: Describe how to work with non-relational data on Azure

Which of the followings can be used to set the IP firewall on the Azure Cosmos DB account?

☐ A.

Azure portal

☐ B.

Azure Resource Manager template

☐ C.

Azure CLI

☐ D.

Azure PowerShell

☐ E.

All of the above

Question

Domain: Describe how to work with non-relational data on Azure

A system is required to be built to monitor the temperature throughout a number of office blocks, and set the air conditioning in every room in every block to have a pleasant temperature. Your system needs to manage the air conditioning in many thousand buildings throughout the country, and each building has at least 110 air-conditioned rooms. What kind of NoSQL data store is most suitable to capture the temperature data so that it can be processed quickly?

☐ A.

Storing the data in a file stored in a share, created through Azure File Storage.

☐ B.

Send the data to an Azure Cosmos DB database and utilize Azure Functions for processing the data.

☐ J.C.

Use blobs to write the temperatures in Azure Blob storage.

☐ J.D.

Use table to store temperature

Question

Domain: Describe how to work with non-relational data on Azure

Which of the following is a benefit of using multi-region replication with Cosmos DB?

☐ J.A.

Increased Availability

☐ J.B.

Consistent data in every region

☐ J.C.

Enhanced data security

☐ J.D.

None of these

Question

Domain: Describe an analytics workload on Azure

Consider the following statements:

S1: Bring data into Power BI Desktop, and create a report

S2: Publish to the Power BI service, where you can create new visualizations or build dashboards

S3: Share dashboards with others, especially people who are on the go

S4: View and interact with shared dashboards and reports in Power BI Mobile apps.

Which of the following sequence of the preceding statements represents the common flow of activities in Power BI?

☐ J.A.

S1-S2-S4-S3

☐ JB.

S2-S1-S3-S4

☐ JC.

S1-S2-S3-S4

☐ JD.

S2-S3-S1-S4

Question

Domain: Describe an analytics workload on Azure

Which of the following element of Azure Synapse enables you to access all the Synapse Analytics tools?

☐ JA.

Synapse Spark pool

☐ JB.

Synapse pipelines

☐ JC.

Synapse Link

☐ JD.

Synapse Studio

Question

Domain: Describe an analytics workload on Azure

Which of the following services is useful to ingest data into Azure Synapse Analytics?

☐ JA.

Power BI

☐ JB.

Azure Data Factory

☐ JC.

Azure Active Directory

☐ JD.

Azure Databricks

☐ JE.

Azure Data Lake Storage

Question

Domain: Describe an analytics workload on Azure

You have retrieved data formatted in a different format from multiple sources. Now, you need to transform the data into a single uniform format. Which of the following data services would you use?

☐ JA.

Azure Data Factory

☐ JB.

Azure Data Lake Storage

☐ JC.

Azure Databricks

☐ JD.

None of These

Question

Domain: Describe an analytics workload on Azure

In which of the following cases would you recommend Azure Synapse Analytics? (You can choose multiple options.)

☐ A.

To perform complex queries and aggregations

☐ B.

To create a dashboard from the tabular data

☐ C.

To allow a large number of users to query analytics data

☐ D.

To quickly process very large amounts of data.

☐ E.

To retrieve data from multiple data sources

Question

Domain: Describe an analytics workload on Azure

Which of the following is the main difference between a data warehouse and a data lake?

☐ A.

A data warehouse contains raw business data whereas a data lake holds structured information

☐ B.

A data warehouse stores the dynamic data whereas a data lake stores the static data

☐ C.

A data warehouse contains structured information whereas a data lake holds raw business data

☐ D.

A data warehouse is highly accessible and easy to update whereas data lake is complicated while making changes

Question

Domain: Describe an analytics workload on Azure

Which of the following statements is/are true for batch processing? (Select multiple options.)

☐ A.

It processes a large volume of data all at once

☐ B.

data is always processed in real-time

☐ C.

There is no or significantly low latency

☐ D.

there is an expected latency

Question

Domain: Describe an analytics workload on Azure

Which of the following are the features of transactional data? (Select four options.)

☐ A.

Denormalized data

☐ B.

Tabular data

☐ C.

Multidimensional model

☐ D.

Appendable and updateable

☐ E.

Low integrity and consistency

☐ F.

Schema on write

☐ G.

Pessimistic or optimistic Locking strategy

Question

Domain: Describe an analytics workload on Azure

Select the right sequence for implementing the Extract, Load, and Transform (ELT) process.

☐ A.

Extract the source data into text files, Prepare the data for loading, Load the data into staging tables with PolyBase or the COPY command, Land the data into Azure Blob storage or Azure Data Lake Store, Transform the data, Insert the data into production tables.

☐ B.

Extract the source data into text files, Land the data into Azure Data Lake Store or Azure Blob storage, Prepare the data for loading, Load the data into staging tables with PolyBase or the COPY command, Transform the data, Insert the data into production tables.

☐ C.

Extract the source data into text files, Land the data into Azure Blob storage or Azure Data Lake Store, Prepare the data for loading, Load the data into staging tables with PolyBase or the COPY command, Insert the data into production tables, Transform the data.

☐ D.

Extract the source data into text files, Prepare the data for loading, Load the data into staging tables with PolyBase or the COPY command, Land the data into Azure Blob storage or Azure Data Lake Store, Insert the data into production tables, Transform the data.

Question

Domain: Describe an analytics workload on Azure

_____ is an open-source and parallel-processing framework that supports in-memory processing to improve the performance of big-data analysis applications.

☐ A.

Apache Hadoop

☐ B.

Apache Storm

☐ C.

Apache Kafka

☐ J.D.

Apache Spark

Question

Domain: Describe an analytics workload on Azure

Which of the following statements is false?

☐ J.A.

In a Spark pool, the nodes are replaced with a Spark cluster.

☐ J.B.

The number of nodes is specified while creating the Spark cluster.

☐ J.C.

A Spark pool doesn't have any auto scaling option.

☐ J.D.

The Spark cluster splits the work out into a sequence of parallel tasks that could be performed concurrently.

Question

Domain: Describe an analytics workload on Azure

In Power BI, _____ is a collection of preset and ready-made visuals and reports that are shared with the entire organization.

☐ J.A.

An App

☐ J.B.

The Canvas

☐ J.C.

Scheduled Refresh

☐ J.D.

Gateway Connection

☐ J.E.

Parameters

Question

Domain: Describe an analytics workload on Azure

In Data Lake Analytics, which of the following languages is used to define a job that contains queries to transform data and extract insights?

☐ J.A.

SQL

☐ J.B.

C#

☐ J.C.

U-SQL

☐ J.D.

PL/SQL

Question

Domain: Describe an analytics workload on Azure

Which of the following statement(s) is/are true about Data Lake Store? (Select multiple options.)

☐ A.

Azure Data Lake Store offers a file system that is capable of storing only a limited amount of data.

☐ B.

Azure Data Lake Store is optimized for analytics workloads.

☐ C.

Azure Data Lake Store is not compatible with the Hadoop Distributed File System (HDFS).

☐ D.

Azure Data Lake Store offers granular security over data, through Access Control Lists (ACL).

Question

Domain: Describe an analytics workload on Azure

Which of the following objects can be added to a Microsoft Power BI dashboard? (Select three options.)

☐ A.

Microsoft PowerPoint Slide

☐ B.

Report Page

☐ C.

Visualization from a Report

☐ D.

Textbox

☐ E.

Data Flow

Question

Domain: Describe core data concepts

The mathematical terms **Relation** and **Tuple** in relational database respectively represent...

☐ A.

Table and Domain

☐ B.

Table and Row

☐ J.C.

Table and column

☐ J.D.

Key and Row

Question

Domain: Describe core data concepts

Which of the following properties ensures that the concurrent execution of multiple transactions leaves the database in the same state that would have been attained if the transactions were executed sequentially?

☐ J.A.

Atomicity

☐ J.B.

Consistency

☐ J.C.

Isolation

☐ J.D.

Durability

Question

Domain: Describe core data concepts

Which of the following are the characteristics of a relational database?

☐ A.

All data needs to be stored as integers

☐ B.

The rows in a table consist of one or more columns that represent the properties of the entity.

☐ C.

The different rows in the same table might have different columns.

☐ D.

A tuple in a relation represents a single entity.

☐ E.

A relational database has a flexible schema.

Question

Domain: Describe core data concepts

Which of the following is/are the examples of streaming dataset? (Select two options.)

☐ A.

Data from Twitter feeds

☐ B.

Sales data of a company for last month

☐ C.

Data from sensors and devices

☐ D.

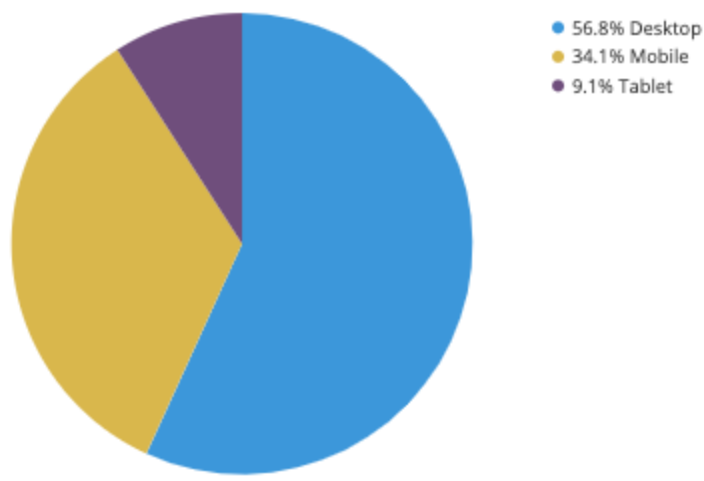
List of employees employed in an organization

Question

Domain: Describe core data concepts

Choose the right type of the following graph.

Number of Visits by Device



☐ J.A.

Bar chart

☐ J.B.

Pie chart

☐ J.C.

Tree map

☐ J.D.

Line Chart

☐ J.E.

Scatter Chart

Question

Domain: Describe core data concepts

Which type of analytics is appropriate to tell what will happen in the future?

☐ J.A.

Descriptive analytics

☐ JB.

Diagnostic analytics

☐ JC.

Predictive analytics

☐ JD.

Prescriptive analytics

Question

Domain: Describe core data concepts

In which pipeline does the transformation happen in the target datastore?

☐ JA.

ETL

☐ JB.

ELT

☐ JC.

None of these

☐ JD.

None

Question

Domain: Describe core data concepts

_____ is the process of transforming and mapping the raw data into a more useful format for analysis.

☐ J.A.

Data Cleaning

☐ J.B.

Data Ingestion

☐ J.C.

Wrangling

☐ J.D.

Data Analysis

☐ J.E.

Data Modeling

Question

Domain: Describe core data concepts

Choose the visual that depicts the major contributors to a selected value or result.

☐ J.A.

Bar and Column chart

☐ J.B.

Matrix Chart

☐ J.C.

Treemap

☐ J.D.

Key Influencers

Question

Which of the following statements is true?

☐ A.

Prescriptive Analytics helps in learning what might occur if circumstances change, and how to handle these situations while cognitive analytics help in answering the questions about what steps or actions should be taken to reach a goal or target.

☐ B.

Cognitive analytics helps in learning what might occur if circumstances change, and how to handle these situations while Prescriptive Analytics helps in answering the questions about what steps or actions should be taken to reach a goal or target.

☐ C.

Predictive Analytics helps in answering the questions about what steps or actions should be taken to reach a goal or target while cognitive analytics helps in learning what might occur if circumstances change, and how to handle these situations.

☐ D.

Cognitive Analytics helps in answering the questions about what steps or actions should be taken to reach a goal or target while Predictive Analytics helps in learning what might occur if circumstances change, and how to handle these situations.

Question

Which of the following are the roles and responsibilities of a database administrator? (Choose three options.)

☐ A.

To install and upgrade the database server and application tools.

☐ B.

To enroll the users and maintain system security.

☐ C.

To develop, construct, test, and maintain the databases and data structures.

☐ D.

To monitor and optimize the performance of the database

☐ E.

To Prepare the data for prescriptive and predictive modeling

Question

Domain: Describe core data concepts

Which of the following is not a data job role?

☐ A.

Data Engineer

☐ B.

Data Analyst

☐ C.

System Administrator

☐ D.

Database Administrator

Question

Domain: Describe how to work with non-relational data on Azure

How many performance tiers are offered by Azure File Storage?

☐ A.

1

☐ B.

2

☐ C.

3

☐ D.

4

Question

Domain: Describe how to work with non-relational data on Azure

Name the elements of an Azure Table storage key.

☐ A.

Row key and column key

☐ B.

Partition key and Row key

☐ C.

Column name and Table name

☐ D.

Column name and Column key

Question

Domain: Describe how to work with non-relational data on Azure

Which of the following are the advantages of using Azure Table Storage tables over other methods of data storage? (Select three options.)

☐ A.

It ensures consistency as transactional updates across multiple entities are guaranteed

☐ B.

There is no requirement of mapping and maintaining the complex relationships typically required by a normalized relational database

☐ C.

Referential integrity is the major benefit of Azure Table Storage tables that maintains the relationships between rows

☐ D.

Tables can store semi-structured data

☐ E.

It is simpler to scale. It consumes the same time to insert data in an empty table or a table with billions of entries. An Azure storage account can consist of up to 500 TB of data

Question

Domain: Describe how to work with non-relational data on Azure

Choose the correct statement(s).

☐ A.

In an on-Premises solution, Application level controls and Network Controls are the responsibility of cloud customers and physical security is the responsibility of cloud providers.

☐ B.

In SaaS solutions, Application level controls and Network Controls are the responsibility of cloud customers and physical security is the responsibility of cloud providers.

☐ C.

In SaaS solutions, Application level controls, Network Controls, and physical security are the responsibilities of the cloud provider.

☐ D.

In IaaS solution, Application level controls are the responsibility of cloud customers while it is the responsibility of the cloud provider in the SaaS solution.

Question

Domain: Describe how to work with non-relational data on Azure

Which of the following statements is false about Azure Cosmos DB?

☐ A.

It supports providing or restricting access to the Cosmos account, database, container, and offers (throughput) using Access control (IAM) in the Azure portal.

☐ B.

It supports monitoring the account for normal and abnormal activities.

☐ C.

All connections to Azure Cosmos DB support HTTPS.

☐ JD.

The data once deleted can't be recovered in any way.