

## Practice Test 1

### Question

Domain: Describe an analytics workload on Azure

You are using an eCommerce application that reads and writes data to an Azure SQL database. Which processing is this application using?

- ☐ A.  
Batch Processing
- ☐ B.  
Stream Processing
- ☐ C.  
Online Transaction Processing (OLTP)
- ☐ D.  
Online Analytical Processing (OLAP)

### Question

Domain :Describe an analytics workload on Azure

Complete the Sentence:

The MPP (Massively Parallel Processing) Engine of Azure Synapse Analytics...

- ☐ A.  
Redirects client connections across control nodes
- ☐ B.  
Distributes processing across compute nodes
- ☐ C.  
Distributes processing across control nodes
- ☐ D.  
Redirects client connections to compute nodes

### Question

Domain :Describe an analytics workload on Azure

What is the role of a pipeline in a data factory in the management of activities?

- ☐ A.  
A pipeline allows the management of activities as a set
- ☐ B.  
A pipeline allows the management of activities individually
- ☐ C.  
A pipeline allows the management of activities individually and as a set both
- ☐ D.

Question

Domain :Describe an analytics workload on Azure

Read the following statements:

1. Azure Analysis services are used for transactional workloads.
2. Azure Databricks is a collaborative analytics platform based on Apache Spark.
3. Azure Data Factory orchestrates data ingestion workflows.
4. Azure Synapse is an analytics service used to bring Big Data analytics and Enterprise Data Warehousing together.

Which of the following statements are true? Choose the correct option.

- ☐ A.  
2, 3, 4
- ☐ B.  
1, 2, 3
- ☐ C.  
1, 3, 4
- ☐ D.  
1, 2, 4
- ☐ E.  
1, 2, 3, 4

Question

Domain: Describe an analytics workload on Azure

The visualizations on the Power BI dashboard are known as...

☐ A.  
Canvas

☐ B.  
Elements

☐ C.  
Tiles

☐ D.  
Reports

### Question

Domain: Describe core data concepts

Which of the following are the characteristics of real-time data processing? (Select two options.)

☐ A.  
Expected low latency

☐ B.  
Periodic data processing

☐ C.  
Data is processed just after creation

☐ D.  
Acceptable high latency

### Question

Domain: Describe core data concepts

Read the statement - "In relational databases, all the values in a column will have the same data type."

Choose the correct option with respect to the given statement.

☐ A.Yes

☐ B.No

### Question

Domain: Describe core data concepts

An organization has been using a bar chart to present the year-wise sales of a region to track the status of sales year by year. How would you recognize the analytics here?

☐ A.  
Descriptive

☐ B.  
Diagnostic

☐ C.  
Predictive

☐ D.  
Prescriptive

### Question

Domain: Describe how to work with relational data on Azure

You are working in an organization and your client wants to migrate all of his SQL workloads to the Azure such that complete SQL Server compatibility and operating system-level access will be maintained. Which Azure Database would you recommend to the client?

☐ A.  
Azure SQL Database

☐ B.  
Azure Cosmos DB

☐ C.  
Azure SQL Managed Instance

☐ D.  
SQL Server on Virtual Machines

### Question

Domain: Describe how to work with relational data on Azure

Fill in the blank:

A database index allows a query to \_\_\_\_\_ data efficiently from a database.

☐ A.  
Delete

☐ J.B.  
Retrieve

☐ J.C.  
Find

☐ J.D.  
Search

### Question

Domain: Describe how to work with relational data on Azure

You work as a data associate in a cloud service provider organization and a data scientist asks you for a suggestion on which cloud service a client should use if he wants to get a fully managed platform with the least user management to run his application. Which of the following cloud services would you recommend?

☐ J.A.  
IaaS

☐ J.B.  
SaaS

☐ J.C.  
PaaS

☐ J.D.  
All of the Above

☐ J.E.  
None of the Above

### Question

Domain: Describe how to work with relational data on Azure

Which of the following is not a feature of the Azure Database for MariaDB?

☐ J.A.  
High availability and predictable performance

☐ J.B.  
Provides read and write MySQL system database

☐ J.C.  
Autoscaling, auto backups, and point-in-time-restore

☐ J.D.  
Secure protection of data with enterprise-grade security and compliance

### Question

Domain: Describe how to work with relational data on Azure

Fill in the blank:

The \_\_\_\_\_ contains trusted Fabric Controllers and supporting systems.

☐ J.A.  
Device VLAN

☐ J.B.  
Main VLAN

☐ J.C.  
FC VLAN

☐ J.D.  
All the Above

### Question

Domain: Describe how to work with relational data on Azure

Which of the following is used to create and modify the structure of database objects?

☐ J.A.  
DQL (Data Query Language)

☐ J.B.  
DDL (Data Definition Language)

☐ J.C.  
DCL (Data Control Language)

☐ J.D.  
DML (Data Manipulation Language)

## Question

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

Which of the following is a unique identifier for the document, often hashed for the even distribution of data, and helps in the retrieval of data from the document in the document data store?

- ☐ A.  
Primary Key
- ☐ B.  
Hash Key
- ☐ C.  
Secondary Key
- ☐ D.  
Document Key

## Question

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

You have a file system where text files have been stored. The primary index of a file is the file path but you want to perform a search based on the contents of the file. Which of the following would help you to find the path to the files as per your matching criteria?

- ☐ A.  
Document Data Store
- ☐ B.  
Key/Value Data Store
- ☐ C.  
External Index Data Store
- ☐ D.  
Graph Data Store

## Question

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

Consider the JSON document for your cosmetics ecommerce website:

```
{
  "id" : "cc11023432-e29-5rfg-75dh-873n8b6s6767",
  "productName" : "Press-on Nail" ,
  "description" : "Press and Done" ,
  "supplier" : " Nah Nails Inc" ,
  "quantity" ; 220
  "unitCost" : "$12.25" ,
  "retailPrice" : "$13.25" ,
  "categories" :
    [
      {"name" : "nails"},
      {"name" : "extended nails" }
    ]
}
```

What will be the SQL command to retrieve the product name from the given document?

- ☐ A.  
`db.Items.find({ }, {productName:1, _id:0})`
- ☐ B.  
  
`SELECT c.productName FROM Items c`
- ☐ C.  
`db.Items.find({ }, {quantity:1, _id:0})`
- ☐ D.  
`SELECT c.unitCost FROM Items c`

### Question

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

The objects in Blob storage cannot be accessed via...



- ☐ J.A.  
Azure PowerShell
- ☐ J.B.  
Azure Storage REST API
- ☐ J.C.  
Azure Storage Client Library
- ☐ J.D.  
Azure Connect
- ☐ J.E.  
Azure CLI

### Question

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

You are working as a data associate in an organization. Your client has accomplished the tasks with his Azure CosmosDB account and wants to delete it. He does not know about the steps to be followed for it. You need to help him to follow the right sequence of steps to clean up his Azure Cosmos DB account. How will you arrange the following steps in the right sequence?

1. Select the created resource group for the quickstart.
2. Search and Select Resource Groups in the Azure Portal Search Bar.
3. Enter the name of the resource group you want to delete and select Delete.
4. Select Delete Resource Group on the Resource Group Overview Page.

- ☐ J.A.  
2143
- ☐ J.B.  
1342
- ☐ J.C.  
4231
- ☐ J.D.  
1234

### Question

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

Which of the following is not a checkpoint in the checklist for troubleshooting issues when you are working with Azure Cosmos DB .NET SDK?

- ☐ A.  
Use the latest SDK
- ☐ B.  
Follow setup for SDK logging
- ☐ C.  
Log the SQL Query Metrics from all the query responses
- ☐ D.  
Disable the SDK logging

### Question

Domain: Describe core data concepts

Which of the following are the characteristics of real-time data processing? (Select two options.)

- ☐ A.  
Expected low latency
- ☐ B.  
Periodic data processing
- ☐ C.  
Data is processed just after creation
- ☐ D.  
Acceptable high latency
- ☐ E.  
Simple and cost-effective

### Question

Domain: Describe an analytics workload on Azure

You are working as a data engineer in a manufacturing company. Your company data from different data sources contain dates and times in different formats. You want to

transform this raw data into a single uniform structure. Which of the following would you use for this purpose?

- ☐ A.  
Azure Databricks
- ☐ B.  
Azure Data Factory
- ☐ C.  
Azure Data Lake Storage
- ☐ D.  
Azure Synapse Analytics

### Question

Domain: Describe core data concepts

Which elements can be used to define the relationship between tables in relational databases?

- ☐ A.  
Indexes and Views
- ☐ B.  
Primary Keys and Foreign Keys
- ☐ C.  
Rows and Columns
- ☐ D.  
Graphs and Charts

### Question

Domain: Describe core data concepts

The common tasks and responsibilities of a data analyst include...

- ☐ A.  
Finding hidden patterns using data
- ☐ B.  
Focuses only on the available data

- ☐ J.C.  
Restricts access to data in the company
- ☐ J.D.  
Arrives at conclusions with one-step analysis

### Question

Domain: Describe how to work with relational data on Azure

Which of the following Azure data services follows a key-value model? (Select two options.)

- ☐ A.  
Azure Cosmos DB
- ☐ B.  
Azure SQL Database
- ☐ C.  
Azure SQL Managed Instance
- ☐ D.  
Azure Cache for Redis
- ☐ E.  
Azure Database for PostgreSQL

### Question

Domain: Describe how to work with relational data on Azure

Which of the following categories of delivery models do Azure data services belong to?

- ☐ J.A.  
IaaS
- ☐ J.B.  
PaaS
- ☐ J.C.  
SaaS
- ☐ J.D.

DaaS

### Question

Domain: Describe how to work with relational data on Azure

You have recently joined a new company as a data engineer where you have been assigned to develop the web and application tiers for a logistics app. What is the most suitable alternative for hosting your database?

- ☐ A.  
Hosting an on-premises SQL Server
- ☐ B.  
Hosting the Azure SQL database in the cloud
- ☐ C.  
Development of an on-premises data center
- ☐ D.  
Using virtual machines

### Question

Domain: Describe how to work with relational data on Azure

DDL or Data Definition Language is different from DML or Data Manipulation Language, because...

- ☐ A.  
DDL uses the WHERE clause in its statement while DML does not
- ☐ B.  
DDL has two distinct classifications in comparison to DML
- ☐ C.  
DDL can help in the creation of database schema, and DML also helps, retrieval or updating data
- ☐ D.  
DDL helps in adding or updating the row of a table, and DML defines the column of the table

### Question

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

Which of the following characteristics relates closely to NoSQL databases?

- ☐ A.  
Cost-effective
- ☐ B.  
Fixed schema
- ☐ C.  
Complex relationships
- ☐ D.  
Limited scalability

### Question

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

Which of the following use case scenarios aptly relates to the use of non-relational data offerings on Azure?

- ☐ A.  
Inventory management systems
- ☐ B.  
Database migration systems
- ☐ C.  
Accounting systems
- ☐ D.  
Transaction management systems

### Question

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

Which of the following relates closely to Azure Cosmos DB explorer?

- ☐ A.  
Linear scaling for demanding workloads
- ☐ B.  
Optimization for ad-hoc exploration

☐ J.C.

Full-screen space for viewing data, running queries, stored procedures, triggers and viewing the related results

☐ J.D.

Back-end support for data-intensive Azure services

### Question

Domain :Describe an analytics workload on Azure

Which of the following factors establish the advantage of the data warehouse approach over the 'direct access' approach? (Select two options.)

☐ A.

No requirement for sorting of records

☐ B.

Efficient control over record allocation

☐ C.

Real-time integration of different data sources

☐ D.

Optimization for reading access to generate faster reports

☐ E.

Minimal ability to drill-down to specific solutions

### Question

Domain :Describe an analytics workload on Azure

Which of the following scenarios are ideal for using Azure Synapse Analytics?

☐ J.A.

Multiple data sources that can be correlated

☐ J.B.

Requirement of complicated ETL (Extraction, Transform and Load) operations

☐ J.C.

Faster development of dashboard based on tabular data

☐ J.D.

**Requirement of detailed analysis and drilling into data by leveraging Power BI function**

### **Question**

Domain :Describe an analytics workload on Azure

Which of the following steps is not included in the implementation of ELT for a Synapse SQL pool?

- ☐ A.  
Transformation of data
- ☐ B.  
Preparation of data for loading
- ☐ C.  
Addition of resources for data transformation before loading
- ☐ D.  
Loading the data by using PolyBase or COPY statement

### **Question**

Domain :Describe an analytics workload on Azure

Which of the following benefits don't relate closely to interactive reports in Power BI?

- ☐ A.  
AI-powered augmented analytics
- ☐ B.  
Advanced analytics with the knowledge of MS Office
- ☐ C.  
Easier preparation and modeling of data
- ☐ D.  
Ideal for enterprise and medium companies that have human capital for supporting data analytics

### **Question**



Domain :Describe how to work with relational data on Azure

Which Azure database is the best option when there is a need for high availability and elastic scaling to open-source mobile and web apps?

- ☐ A.  
Azure SQL database
- ☐ B.  
Azure SQL managed Instance
- ☐ C.  
Azure Database for MySQL
- ☐ D.  
Azure Cosmos Database

### Question

Domain :Describe how to work with relational data on Azure

You want to ensure that multi-factor Authentication (MFA) is used to connect with the Azure SQL managed Instance. Which of the following type of authentication would you suggest?

- ☐ A.  
Certificate authentication
- ☐ B.  
Azure Active Directory (Azure AD) authentication
- ☐ C.  
Service principal authentication
- ☐ D.  
SQL authentication

### Question

Domain :Describe how to work with relational data on Azure

Fill in the blank.

Azure data services belong to \_\_\_\_\_ Category.

- ☐ A.  
IaaS

☐ B.  
Paas

☐ C.  
Saas

☐ D.  
None

### Question

Domain :Describe how to work with relational data on Azure

How many virtual machine images are maintained by Azure for each supported operating system (OS), version, and edition combination?

☐ A.  
One

☐ B.  
Two

☐ C.  
Three

☐ D.  
Unlimited

### Question

Domain :Describe how to work with relational data on Azure

If the system is using features such as linked servers or Database Mail, which option will you suggest while selecting the Azure SQL database?

☐ A.  
Single Database

☐ B.  
Elastic Pool

☐ C.  
Managed Instance

☐ D.

Both A and B

### Question

Domain :Describe how to work with relational data on Azure

Read the statements below:

- 1)Connect to the database, for example, using **SQL Server Management Studio**
- 2) In the query window, add this statement and modify the IP address to your public IP address
- 3) In Object Explorer, right-click the database and select New Query
- 4)On the toolbar, select Execute to create the firewall rule

Which of the following is the correct sequence to set up a database-level firewall rule?

- ☐ A.  
1,2,3, 4
- ☐ B.  
1,3,2, 4
- ☐ C.  
1,2,4, 3
- ☐ D.  
1, 4, 3, 2

### Question

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

Which of the following is not a feature of a non-relational or NoSQL database?

- ☐ A.  
Capability to handle large, indeterminate, unrelated, or rapidly changing data
- ☐ B.  
Stores the data based on database type
- ☐ C.  
Suitable for apps where Performance and availability are the main criteria than strong consistency.
- ☐ D.  
Scales data vertically by increasing server load

## Question

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

You need to store semi-structured data in the database as key-value pairs where the key is unique and columns can vary and each row holds the whole data for a logical entity. Which storage option should you choose?

- ☐ A.  
Azure Table Storage
- ☐ B.  
Azure File Storage
- ☐ C.  
Azure Blob Storage
- ☐ D.  
None

## Question

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

Which of the following statement is/are true about Azure Cosmos DB?

- ☐ A.  
Azure Cosmos DB does not replicate data within a single data center.
- ☐ B.  
Azure Cosmos DB utilizes hash-based message authentication code (HMAC) for the authorization purpose.
- ☐ C.  
In Azure Cosmos DB, there is a need to manage and patch servers manually.
- ☐ D.  
Azure Cosmos DB protects the data by storing the data on SSDs in Azure's protected data centers.
- ☐ E.  
Azure Cosmo DB supports providing or restricting access to the Cosmos account, container, database, and offers (throughput) through Access control (IAM) in the Azure portal.

### Question

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

How many different types of blobs are supported by Azure blob service?

☐ A.  
2

☐ B.  
3

☐ C.  
4

☐ D.  
5

### Question

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

When would you use a page blob, and when a block blob?

☐ A.  
A page blob should be used for the blob that needs random write and read access. A block blob should be used for discrete objects that change infrequently.

☐ B.  
A page blob should be used for discrete objects that hardly change. A block blob should be used for unstructured data that needs random access to perform writes and reads.

☐ C.  
A page blob should be used for data stored with the help of the Cool or Archive data access tiers. A block blob should be used for active data stored with the help of Hot data access tier.

☐ D.  
A page blob can be used for the max size up to 4.77TB, supported by only regular storage while a block blob can be used for the max size up to 8TB, supported by both premium and regular storage.

### Question

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

Which of the following is not true about AzCopy?

☐ A.

AzCopy is a command-line utility optimized to transfer large files or blobs between Azure file storage and your local computer.

☐ B.

Before you can utilize AzCopy, you create a Shared Access signature (SAS) token that provides anonymous, controlled and time-limited access to resources and services in a storage account

☐ C.

One of the demerits of AzCopy is that it can't detect the transfer failures.

☐ D.

None

### Question

Domain :Describe an analytics workload on Azure

Which of the following components of an Azure Data Factory is triggered to run data ingestion tasks?

☐ A.

Pipeline

☐ B.

Datasets

☐ C.

Linked Services

☐ D.

CSV file

### Question

Domain :Describe an analytics workload on Azure

Which of the following are the basic building blocks in Power BI?

☐ A.

Visualizations, tiles, mobile devices, dataset, and dashboard

☐ B.

Visualizations, datasets, reports, dashboards, and tiles

☐ C.  
Visualizations, JSON files, dashboards, and tiles

☐ D.  
JSON documents, visual studio, C#

### Question

Domain :Describe an analytics workload on Azure

Which of the following is/are the characteristics of OLAP (On-Line Analytical processing)? (Choose three options.)

- ☐ A.  
It stores the data in 3rd Normal Form to facilitate simple queries
- ☐ B.  
Data is denormalized for improving the query performance when aggregation is to be done
- ☐ C.  
Data is regularly backed up without fail as OLAP stores all functional data for the business.
- ☐ D.  
Backups are hardly needed as OLAP is built to persist data.
- ☐ E.  
It provides a consolidated view of enterprise data for planning, reporting, and decision-making.

### Question

Domain :Describe an analytics workload on Azure

Which of the following statement is not true about paginated reports?

- ☐ A.  
Paginated reports are optimized to be printed or shared.
- ☐ B.  
They are known as paginated because they are formatted to fit well on a page.

☐ J.C.

Data is displayed in a table, only if the table spans a single page otherwise it is displayed in paragraph form.

☐ J.D.

Paginated reports are also known as pixel perfect because you can control their report page layout exactly.

### Question

Domain :Describe an analytics workload on Azure

How many computational models are supported by Azure Synapse Analytics?

☐ J.A.

Only 1

☐ J.B.

2

☐ J.C.

3

☐ J.D.

4

### Question

Domain :Describe core data concepts

Which of the following is/are the example(s) of unstructured data?

☐ J.A.

A student table with columns studentname, student\_id, and registration

☐ J.B.

Audio and video files and binary data files

☐ J.C.

A table within SQL Server database

☐ J.D.

A student table with rows studentname, student\_id, and registration

☐ J.E.



## JSON Document

### Question

Domain :Describe core data concepts

Which of the following statement is true for an index?

- ☐ A.  
An index is a data structure that enhances retrieval speed at the cost of decreasing write speed and using more storage space.
- ☐ B.  
An index is a virtual table based on the result set of a query.
- ☐ C.  
You can create one index on a table.
- ☐ D.  
Index increases the search time.
- ☐ E.  
An index is a structure having rows and columns that are used to store the data.

### Question

Domain :Describe core data concepts

Which of the following is/are the benefits of utilizing PaaS service over the on-premises system for running your database management systems?

- ☐ A.  
Decreased day to day management costs
- ☐ B.  
Enhanced functionality
- ☐ C.  
Enhanced scalability
- ☐ D.  
Enhanced security