



DP-900^{Q&As}

Microsoft Azure Data Fundamentals

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QUESTION 1

DRAG DROP

Match the terms to the appropriate descriptions.

To answer, drag the appropriate term from the column on the left to its description on the right. Each term may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Language	Answer Area
JavaScript	<input type="text"/> Azure Data Explorer
KQL	<input type="text"/> Azure Stream Analytics
Python	<input type="text"/> Azure Synapse Analytics
SQL	

Correct Answer:

Language	Answer Area
JavaScript	<input type="text"/>
<input type="text"/>	<input type="text"/> KQL Azure Data Explorer
<input type="text"/>	<input type="text"/> SQL Azure Stream Analytics
<input type="text"/>	<input type="text"/> Python Azure Synapse Analytics

QUESTION 2

HOTSPOT

To complete the sentence, select the appropriate option in the answer area.

Hot Area:



An extract, transform, and load (ETL) process requires

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Correct Answer:

An extract, transform, and load (ETL) process requires

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

In the ELT pipeline, the transformation occurs in the target data store. ELT only works well when the target system is powerful enough to transform the data efficiently. Incorrect Answers:

1.

The data does not need to be fully processed: Often, the three ETL phases are run in parallel to save time. For example, while data is being extracted, a transformation process could be working on data already received and prepare it for loading, and a loading process can begin working on the prepared data, rather than waiting for the entire extraction process to complete.

2.

The target does need to be a relational database.

Reference: <https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/etl>

QUESTION 3

When provisioning an Azure Cosmos DB account, which feature provides redundancy within an Azure region?

A. multi-master replication



- B. Availability Zones
- C. automatic failover
- D. the strong consistency level

Correct Answer: B

With Availability Zone (AZ) support, Azure Cosmos DB will ensure replicas are placed across multiple zones within a given region to provide high availability and resiliency to zonal failures.

Note: Azure Cosmos DB provides high availability in two primary ways. First, Azure Cosmos DB replicates data across regions configured within a Cosmos account. Second, Azure Cosmos DB maintains 4 replicas of data within a region.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability>

QUESTION 4

DRAG DROP

Match the cloud service model to the appropriate Azure relational database service.

To answer, drag the appropriate cloud service model from the column on the left to its service on the right. Each model may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Cloud service model

Infrastructure as a service

Platform as a service

Software as a service

Answer Area

Cloud service model

Azure SQL Database

Cloud service model

Azure SQL Managed Instance

Cloud service model

SQL Server on Azure Virtual Machines

Correct Answer:



Cloud service model

Infrastructure as a service

Platform as a service

Software as a service

Answer Area

Platform as a service

Azure SQL Database

Platform as a service

Azure SQL Managed Instance

Infrastructure as a service

SQL Server on Azure Virtual Machines

QUESTION 5

HOTSPOT

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Yes No

Relational database tables contain columns and rows.

Indexes in a relational database describe the data types in a table.

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

Correct Answer:



Yes No

Relational database tables contain columns and rows.

Indexes in a relational database describe the data types in a table.

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

Box 1: Yes

Tables are database objects that contain all the data in a database. In tables, data is logically organized in a row-and-column format similar to a spreadsheet. Each row represents a unique record, and each column represents a field in the record.

Box 2: No

An index is an on-disk structure associated with a table or view that speeds retrieval of rows from the table or view.

Box 3: Yes

A view is a virtual table whose contents are defined by a query. Like a table, a view consists of a set of named columns and rows of data.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/tables/tables>

<https://docs.microsoft.com/en-us/sql/relational-databases/indexes/clustered-and-nonclustered-indexes-described>

<https://docs.microsoft.com/en-us/sql/relational-databases/views/views?view=sql-server-ver15>

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