



# Microsoft

## Exam Questions DP-900

Microsoft Azure Data Fundamentals

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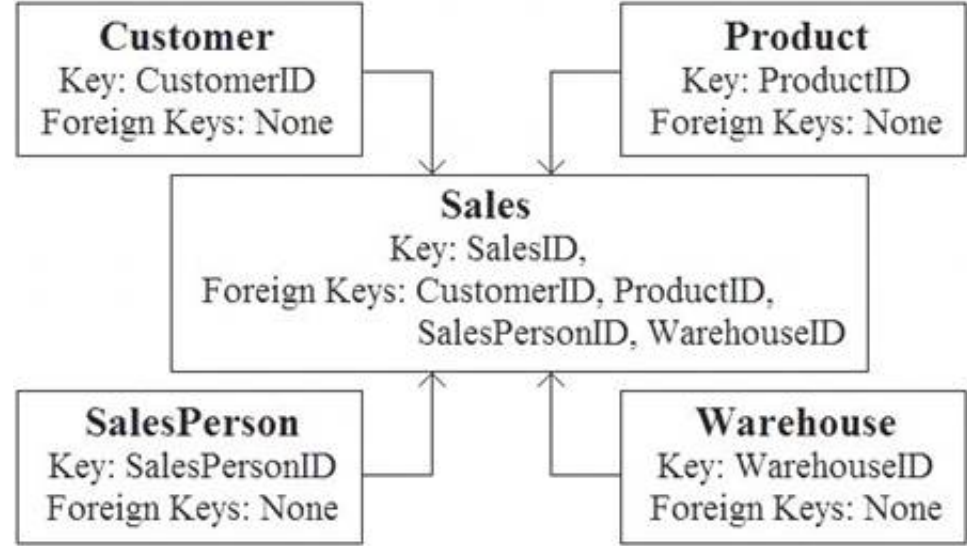
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NEW QUESTION 1

You are reviewing the data model shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point

The data model is a [answer choice].

transactional model

star schema

snowflake schema

Customer is a [answer choice] table.

fact

dimension

bridge

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

The data model is a [answer choice].

transactional model

star schema

snowflake schema

Customer is a [answer choice] table.

fact

dimension

bridge

NEW QUESTION 2

What are two benefits of platform as a service (PaaS) relational database offerings in Azure, such as Azure SQL Database? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. complete control over backup and restore processes  
B. access to the latest features  
C. in-database machine learning services  
D. reduced administrative effort for managing the server infrastructure

Answer: BC

NEW QUESTION 3

You need to query a table named Products in an Azure SQL database.

Which three requirements must be met to query the table from the internet? Each correct answer presents part of the solution. (Choose three.)

NOTE: Each correct selection is worth one point.

- A. You must be assigned the Reader role for the resource group that contains the database.  
B. You must have SELECT access to the Products table.  
C. You must have a user in the database.  
D. You must be assigned the Contributor role for the resource group that contains the database.  
E. Your IP address must be allowed to connect to the database.

Answer: ACE

NEW QUESTION 4

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

Answer Area

Relational data uses 

collections  
columns  
keys  
partitions

 to enforce relationships between different tables.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Relational data uses 

collections  
columns  
keys  
partitions

 to enforce relationships between different tables.

NEW QUESTION 5

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

A heap

A stored procedure

A view

An index

▼ is a virtual table that contains content defined by a query.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A heap

A stored procedure

A view

An index

▼ is a virtual table that contains content defined by a query.

NEW QUESTION 6

Match the types of activities to the appropriate Azure Data Factory activities.  
To answer, drag the appropriate activity type from the column on the left to its Data Factory activity on the right. Each activity type may be used once, more than once, or not at all.  
NOTE: Each correct match is worth one point.

Activity Types

Control

Data movement

Data transformation

Answer Area

Copy

Mapping data flow

Until

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Activity Types

- Control
- Data movement
- Data transformation

Answer Area

- Data movementCopy
- Data transformationMapping data flow
- ControlUntil

NEW QUESTION 7

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

You can query a graph database in Azure Cosmos DB

as a JSON document by using a SQL-like language.

as a partitioned row store by using Cassandra Query Language (CQL).

as a partitioned row store by using Language-Integrated Query (LINQ).

as nodes and edges by using the Gremlin language.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

You can query a graph database in Azure Cosmos DB

as a JSON document by using a SQL-like language. !

as a partitioned row store by using Cassandra Query Language (CQL).

as a partitioned row store by using Language-Integrated Query (LINQ).

as nodes and edges by using the Gremlin language.

NEW QUESTION 8

Which two activities can be performed entirely by using the Microsoft Power BI service? Each correct answer presents a complete solution. (Choose two.)  
NOTE: Each correct selection is worth one point.

- A. report and dashboard creation
- B. report sharing and distribution
- C. data modeling
- D. data acquisition and preparation

Answer: AD

NEW QUESTION 9

For each of the following statements, select Yes if the statement is true, Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements

Yes

No

Azure Synapse Analytics scales storage and compute independently.

☐

☐

Azure Synapse Analytics can be paused to reduce compute costs.

☐

☐

An Azure Synapse Analytics data warehouse has a fixed storage capacity.

☐

☐

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements

Yes

No

Azure Synapse Analytics scales storage and compute independently.

☒

☐

Azure Synapse Analytics can be paused to reduce compute costs.

☒

☐

An Azure Synapse Analytics data warehouse has a fixed storage capacity.

☐

☒



#### NEW QUESTION 10

What are two characteristics of real-time data processing? Each correct answer present a complete solution. NOTE: Each correct selection is worth one point.

- A. Data is processed as it is created.
- B. Low latency is expected
- C. High latency acceptable
- D. Data is processed periodically

**Answer:** BD

#### NEW QUESTION 10

You need to ensure that users use multi-factor authentication (MFA) when connecting to an Azure SQL database. Which type of authentication should you use?

- A. service principal authentication
- B. Azure Active Directory (Azure AD) authentication
- C. SQL authentication
- D. certificate authentication

**Answer:** B

#### NEW QUESTION 13

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

The massively parallel processing (MPP) engine of Azure Synapse Analytics

<input type="radio"/> distributes processing across compute nodes. <input type="radio"/> distributes processing across control nodes. <input type="radio"/> redirects client connections across compute nodes. <input type="radio"/> redirects client connections across control nodes.
--

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

The massively parallel processing (MPP) engine of Azure Synapse Analytics

<input checked="" type="radio"/> distributes processing across compute nodes. ! <input type="radio"/> distributes processing across control nodes. <input type="radio"/> redirects client connections across compute nodes. <input type="radio"/> redirects client connections across control nodes.
---

#### NEW QUESTION 15

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

- A. Online Transaction Processing (OLTP)
- B. batch processing
- C. Online Analytical Processing (OLAP)
- D. stream processing

**Answer:** A

#### NEW QUESTION 19

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
Azure Databricks is an Apache Spark-based collaborative analytics platform.	<input type="radio"/>	<input type="radio"/>
Azure Analysis Services is used for transactional workloads.	<input type="radio"/>	<input type="radio"/>
Azure Data Factory orchestrates data integration workflows.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure Databricks is an Apache Spark-based collaborative analytics platform.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Analysis Services is used for transactional workloads.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Data Factory orchestrates data integration workflows.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 21

Match the types of data to the appropriate Azure data services.  
To answer, drag the appropriate data types from the column on the left to its service on the right. Each data type may be used once, more than once, or not at all.  
NOTE: Each correct match is worth one point.

Data Types

Image files

Key/value pairs

Relationships between employees

Answer Area

Data Type

Data Type

Data Type

Azure Blob storage

Azure Cosmos DB Gremlin API

Azure Table storage

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Data Types

Image files

Key/value pairs

Relationships between employees

Answer Area

Image files

Key/value pairs

Relationships between employees

Azure Blob storage

Azure Cosmos DB Gremlin API

Azure Table storage

NEW QUESTION 22

For each of the following statements, select Yes if the statement is true. Otherwise, select No.  
NOTE: Each correct selection is worth one point.

Statements	Yes	No
You can use Azure Data Studio to query a Microsoft SQL Server big data cluster.	<input type="radio"/>	<input type="radio"/>
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	<input type="radio"/>	<input type="radio"/>
You can use MySQL Workbench to query Azure Database for MariaDB databases.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You can use Azure Data Studio to query a Microsoft SQL Server big data cluster.	<input checked="" type="radio"/>	<input type="radio"/>
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	<input checked="" type="radio"/>	<input type="radio"/>
You can use MySQL Workbench to query Azure Database for MariaDB databases.	<input checked="" type="radio"/>	<input type="radio"/>

#### NEW QUESTION 25

You need to use Transact-SQL to query files in Azure Data Lake Storage from an Azure Synapse Analytics data warehouse. What should you use to query the files?

- A. Azure Functions
- B. Microsoft SQL Server Integration Services (SSIS)
- C. PolyBase
- D. Azure Data Factory

**Answer:** C

#### NEW QUESTION 28

Which two Azure services can be used to provision Spark clusters? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Azure Databricks
- B. Azure Log Analytics
- C. Azure Time Series Insights
- D. Azure HDInsight

**Answer:** AD

#### NEW QUESTION 33

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	<input type="radio"/>	<input type="radio"/>
You need a Microsoft 365 subscription to create an Azure SQL database.	<input type="radio"/>	<input type="radio"/>
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	<input type="radio"/>	<input checked="" type="radio"/>
You need a Microsoft 365 subscription to create an Azure SQL database.	<input type="radio"/>	<input checked="" type="radio"/>
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	<input checked="" type="radio"/>	<input type="radio"/>

#### NEW QUESTION 38

Which Azure Data Factory component initiates the execution of a pipeline?

- A. a control flow



- B. a trigger
- C. a parameter
- D. an activity

Answer: B

NEW QUESTION 40

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
Azure SQL managed instance supports cross-database queries.	<input type="radio"/>	<input type="radio"/>
Azure SQL managed instance supports user-created backups.	<input type="radio"/>	<input type="radio"/>
Azure SQL managed instance databases can be restored to SQL Server on an Azure virtual machine.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
Azure SQL managed instance supports cross-database queries.	<input checked="" type="radio"/>	<input type="radio"/>
Azure SQL managed instance supports user-created backups.	<input type="radio"/>	<input checked="" type="radio"/>
Azure SQL managed instance databases can be restored to SQL Server on an Azure virtual machine.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 44

What are three characteristics of an Online Transaction Processing (OLTP) workload? Each correct answer presents a complete solution. (Choose three.)  
NOTE: Each correct selection is worth one point.

- A. denormalized data
- B. heavy writes and moderate reads
- C. light writes and heavy reads
- D. schema on write
- E. schema on read
- F. normalized data

Answer: BDE

NEW QUESTION 48

Your company is designing a database that will contain session data for a website. The data will include notifications, personalization attributes, and products that are added to a shopping cart.  
Which type of data store will provide the lowest latency to retrieve the data?

- A. key/value
- B. graph
- C. columnar
- D. document

Answer: C

NEW QUESTION 52

You have an e-commerce application that reads and writes data to an Azure SQL database. Which type of processing does the application use?

- A. stream processing
- B. batch processing
- C. Online Analytical Processing (OLTP)
- D. Online Transaction Processing (OLTP)

Answer: D

NEW QUESTION 56

Your company needs to design a database that shows how changes traffic in one area of a network affect other components on the network.  
Which type of data store should you use?

- A. Key/value
- B. Graph
- C. Document
- D. columnar

Answer: B

NEW QUESTION 61

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
When ingesting data from Azure Data Lake Storage across Azure regions, you will incur costs for bandwidth.	<input type="radio"/>	<input type="radio"/>
You can use blob, table, and file storage in the same Azure Storage account.	<input type="radio"/>	<input type="radio"/>
You implement Azure Data Lake Storage by creating an Azure Storage account.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
When ingesting data from Azure Data Lake Storage across Azure regions, you will incur costs for bandwidth.	<input checked="" type="radio"/>	<input type="radio"/>
You can use blob, table, and file storage in the same Azure Storage account.	<input checked="" type="radio"/>	<input type="radio"/>
You implement Azure Data Lake Storage by creating an Azure Storage account.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 66

You manage an application that stores data in a shared folder on a Windows server.  
You need to move the shared folder to Azure Storage. Which type of Azure Storage should you use?

- A. queue
- B. blob
- C. file
- D. table

Answer: B

NEW QUESTION 67

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

By default, each Azure SQL database is protected by

a network security group (NSG).

a server-level firewall.

Azure Firewall.

Azure Front Door.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

By default, each Azure SQL database is protected by

a network security group (NSG).

a server-level firewall.

Azure Firewall.

Azure Front Door.

**NEW QUESTION 68**

You have an Azure SQL database that you access directly from the internet. You recently changed your external IP address. After changing the IP address, you can no longer access the database. You can connect to other resources in Azure What is a possible cause of the issue?

- A. a database-level firewall
- B. role-based access control (RSAC)
- C. Dynamic Host Configuration Protocol (DHCP)
- D. Domain Name Service (DNS)

**Answer:** D

**NEW QUESTION 73**

You need to create an Azure Storage account.  
Data in the account must replica outside the Azure region automatically.  
Which two types of replica can you us for the storage account? Each correct answer presents a complete solution.  
NOTE: Each correct selection is worth one pint.

- A. read-access geo-redundant storage (RA\_GRS)
- B. zone-redundant storage (ZRS)
- C. geo-redundant storage (GRS)
- D. locally-redundant storage (LRS)

**Answer:** AC

**NEW QUESTION 75**

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

Answer Area

A key/value data store is optimized for

enforcing constraints.

simple lookups.

table joins.

transactions.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

A key/value data store is optimized for

enforcing constraints.

simple lookups.

table joins.

transactions.

**NEW QUESTION 79**

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

Answer Area

A Microsoft Power BI

dashboard

interactive report

paginated report

subscription

enables users to create highly formatted.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Paginated Reports  
<https://powerbi.microsoft.com/en-us/blog/announcing-paginated-reports-in-power-bi-general-availability/>

**NEW QUESTION 83**

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

Answer Area

A relational database is appropriate for scenarios that involve a high volume of

changes to relationships between entities.

geographically distributed writes.

transactional writes.

writes that have varying data structures.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

A relational database is appropriate for scenarios that involve a high volume of

changes to relationships between entities.

geographically distributed writes.

transactional writes.

writes that have varying data structures.

**NEW QUESTION 88**

A team of developers has computers that run Windows 10 and Ubuntu Desktop. The developers need to connect to and query an Azure SQL database from the computers. The developers require code assistance features such as IntelliSense. What should the developers use ?

- A. Azure Data Studio
- B. sqlcmd
- C. Microsoft SQL Server Management Studio (SSMS)
- D. Azure Data Explorer

Answer: B

**NEW QUESTION 93**

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

In Azure Data Factory, you can use

a control flow

a dataset

a linked service

an integration runtime

to orchestrate pipeline

activities that depend on the output of other pipeline activities.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

In Azure Data Factory, you can use

a control flow

a dataset

a linked service

an integration runtime

to orchestrate pipeline

activities that depend on the output of other pipeline activities.

**NEW QUESTION 95**

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