

DP-900^{Q&As}

Microsoft Azure Data Fundamentals

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QUESTION 1

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

- A. Online Transaction Processing (OLTP)
- B. batch
- C. massively parallel processing (MPP)
- D. streaming

Correct Answer: D

Reference: <https://docs.microsoft.com/en-in/azure/azure-monitor/overview>

QUESTION 2

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**

Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.

Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.

Azure Data Studio can be used to restore a database.

Correct Answer:

Yes No

Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.

Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.

Azure Data Studio can be used to restore a database.

QUESTION 3

You have an Azure Cosmos DB account that uses the Core (SQL) API.

Which two settings can you configure at the container level? Each correct answer presents a complete solution. (Choose two.)

NOTE: Each correct selection is worth one point.

- A. the throughput
- B. the read region
- C. the partition key
- D. the API

Correct Answer: AC

Reference: <https://www.sqlshack.com/start-your-journey-with-azure-cosmos-db/>

QUESTION 4

HOTSPOT

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

Hot Area:

When provisioning an Azure Cosmos DB

	▼
account	
container	
database	
item	

you need to specify which type of API you will use.

Correct Answer:

When provisioning an Azure Cosmos DB

	▼
account	
container	
database	
item	

you need to specify which type of API you will use.

QUESTION 5

HOTSPOT

You plan to deploy a PostgreSQL database to Azure.

Which hosting model corresponds to the available deployment options? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

PostgreSQL on Azure VMs:

Infrastructure as a service (IaaS)
Platform as a service (PaaS)
Software as a service (SaaS)

Azure Database for PostgreSQL:

Infrastructure as a service (IaaS)
Platform as a service (PaaS)
Software as a service (SaaS)

Correct Answer:

Answer Area

PostgreSQL on Azure VMs:

Infrastructure as a service (IaaS)
Platform as a service (PaaS)
Software as a service (SaaS)

Azure Database for PostgreSQL:

Infrastructure as a service (IaaS)
Platform as a service (PaaS)
Software as a service (SaaS)

Reference: <https://azure.microsoft.com/en-us/overview/what-is-saas/> <https://azure.microsoft.com/en-us/overview/what-is-paas/>

QUESTION 6

Which clause should you use in a SELECT statement to combine rows in one table with rows in another table?

- A. SET
- B. VALUES
- C. KEY

D. JOIN

Correct Answer: D

Reference: <https://www.tutorialspoint.com/sql/sql-using-joins.htm>

QUESTION 7

Match the types of workloads the appropriate scenario.

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

NOTE: Each correct match is worth one point.

Select and Place:

Batch	Data for a product catalog will be loaded every 12 hours to a data warehouse. Workload Type
Micro-batch	Data for online purchases will be loaded to a data warehouse as the purchases occur Workload Type
Streaming	Updates to inventory data will be loaded to a data warehouse every 1,000 transactions Workload Type

Correct Answer:

<input type="text"/>	Data for a product catalog will be loaded every 12 hours to a data warehouse.
<input type="text"/>	Batch
<input type="text"/>	Data for online purchases will be loaded to a data warehouse as the purchases occur
<input type="text"/>	Streaming
	Updates to inventory data will be loaded to a data warehouse every 1,000 transactions
	Micro-batch

QUESTION 8

HOTSPOT

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

Hot Area:

Answer Area

A block of code that runs in a database is called

<input type="text"/>
a stored procedure.
a table.
a view.
an index.

Correct Answer:

Answer Area

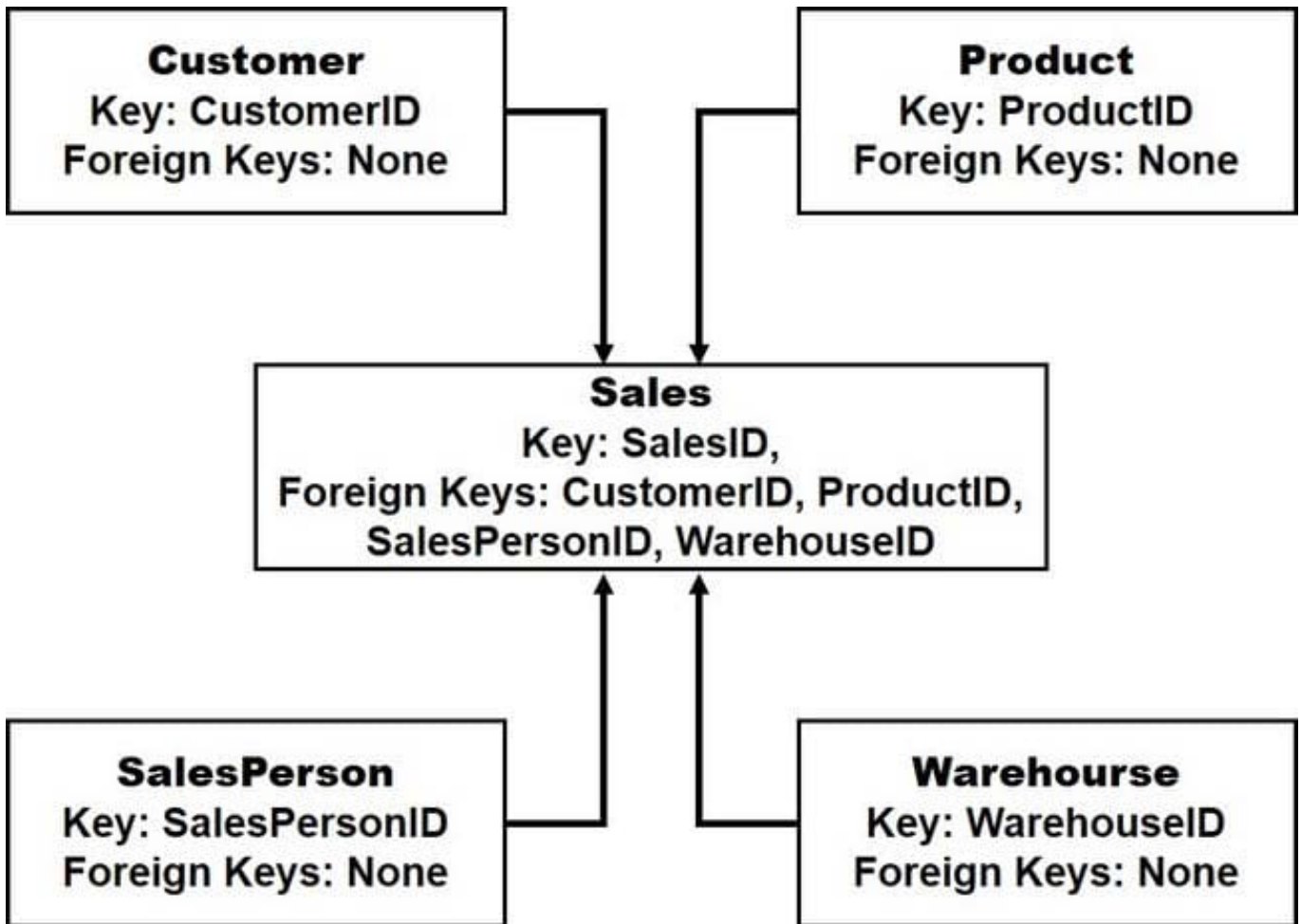
A block of code that runs in a database is called

<input type="text"/>
a stored procedure.
a table.
a view.
an index.

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/stored-procedures/stored-procedures-database-engine?view=sql-server-ver15>

QUESTION 9

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

Hot Area:

The data model is a [answer choice]

▼
transactional model
star schema
snowflake schema

Customer is a [answer choice] table

▼
fact
dimension
bridge

Correct Answer:

The data model is a [answer choice]

▼
transactional model
star schema
snowflake schema

Customer is a [answer choice] table

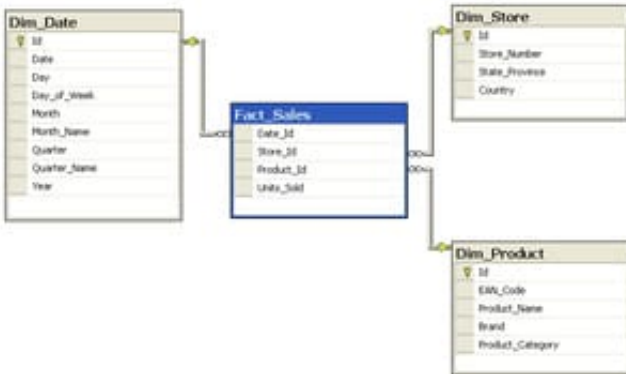
▼
fact
dimension
bridge

Box 1: star schema

In computing, the star schema is the simplest style of data mart schema and is the approach most widely used to develop data warehouses and dimensional data marts. The star schema consists of one or more fact tables referencing any

number of dimension tables. The star schema is an important special case of the snowflake schema, and is more effective for handling simpler queries.

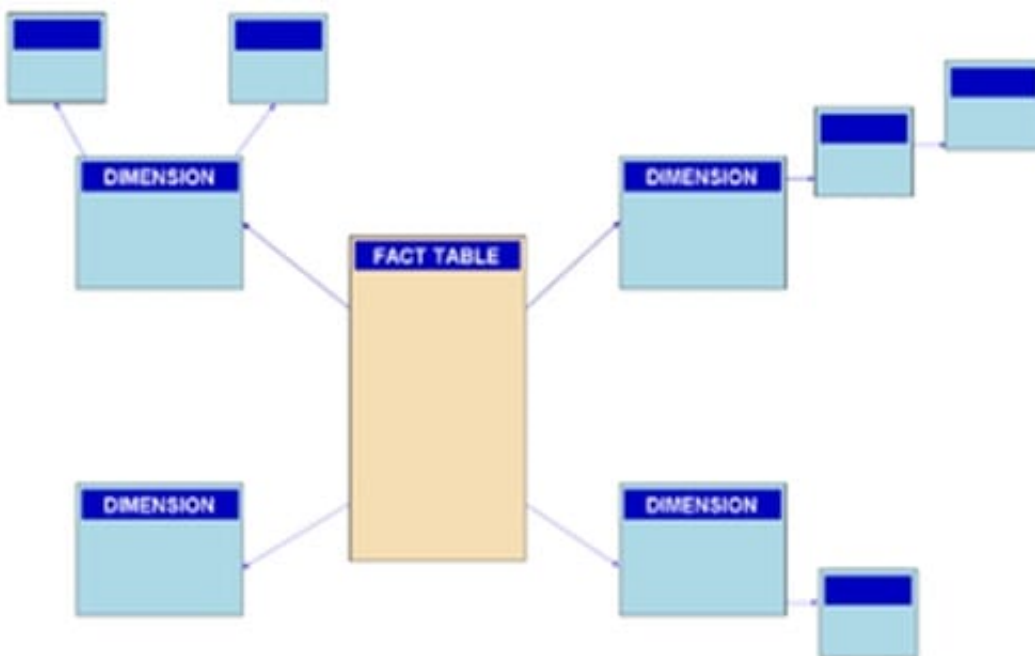
Example:



Incorrect Answers:

The data in the question is not normalized.

The snowflake schema is a variation of the star schema, featuring normalization of dimension tables. Example:



Note: A snowflake schema is a logical arrangement of tables in a multidimensional database such that the entity relationship diagram resembles a snowflake shape. The snowflake schema is represented by centralized fact tables which are

connected to multiple dimensions.[citation needed]. "Snowflaking" is a method of normalizing the dimension tables in a star schema. When it is completely normalized along all the dimension tables, the resultant structure resembles a

snowflake with the fact table in the middle.

Box 2: dimension

The star schema consists of one or more fact tables referencing any number of dimension tables.

Reference: <https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-overview> https://en.wikipedia.org/wiki/Star_schema https://en.wikipedia.org/wiki/Snowflake_schema <https://azure.microsoft.com/en-us/blog/data-models-within-azure-analysis-services-and-power-bi/>

QUESTION 10

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

A non-relational database

Correct Answer:

A non-relational database

QUESTION 11

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:

Statements	Yes	No
Azure Table storage within a single Azure Storage account supports multiple concurrent reads in different Azure regions.	<input type="radio"/>	<input type="radio"/>
Azure Table storage within a single Azure Storage account supports multiple concurrent writes in different Azure regions.	<input type="radio"/>	<input type="radio"/>
An Azure Cosmos DB account that uses the Table API supports multiple concurrent reads in different Azure regions.	<input type="radio"/>	<input type="radio"/>
An Azure Cosmos DB account that uses the Table API supports multiple concurrent writes in different Azure regions.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

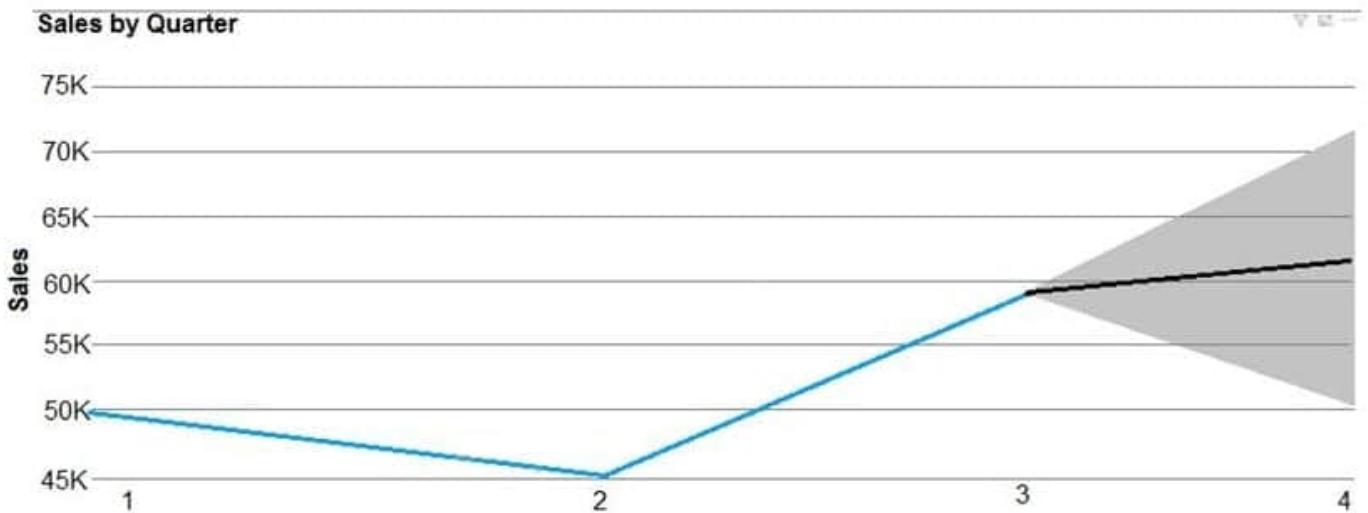
Statements	Yes	No
Azure Table storage within a single Azure Storage account supports multiple concurrent reads in different Azure regions.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Table storage within a single Azure Storage account supports multiple concurrent writes in different Azure regions.	<input type="radio"/>	<input checked="" type="radio"/>
An Azure Cosmos DB account that uses the Table API supports multiple concurrent reads in different Azure regions.	<input checked="" type="radio"/>	<input type="radio"/>
An Azure Cosmos DB account that uses the Table API supports multiple concurrent writes in different Azure regions.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes For read access to the secondary region, configure your storage account to use read-access geo-redundant storage (RA-GRS) or read-access geo-zone-redundant storage (RA-GZRS). Box 2: No

Box 3: Yes Box 4: Yes Azure Cosmos DB supports multi-region writes.

QUESTION 12

Your company recently reported sales from the third quarter. You have the chart shown in the following exhibit.



Which type of analysis is shown for the fourth quarter?

- A. predictive
- B. prescription
- C. descriptive
- D. diagnostic

Correct Answer: A

Predictive, to answer the question: What will happen?

Reference:

<https://demand-planning.com/2020/01/20/the-differences-between-descriptive-diagnostic-predictive-cognitive-analytics/>

<https://azure.microsoft.com/en-us/blog/answering-whats-happening-whys-happening-and-what-will-happen-with-iot-analytics/>

QUESTION 13

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

A Microsoft Power BI dashboard is associated with a single workspace

A Microsoft Power BI dashboard can only display visualizations from a single dataset

A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook

Correct Answer:

Yes No

A Microsoft Power BI dashboard is associated with a single workspace

A Microsoft Power BI dashboard can only display visualizations from a single dataset

A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook

Reference: <https://docs.microsoft.com/en-us/power-bi/connect-data/service-datasets-across-workspaces>
<https://docs.microsoft.com/en-us/power-bi/consumer/end-user-dashboards> <https://powerbi.microsoft.com/en-us/excel-and-power-bi/>

QUESTION 14

DRAG DROP

Match the types of analytics that can be used to answer the business questions.

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

NOTE: Each correct match is worth one point.

Select and Place:

Cognitive	Why did sales increase last month? Analytics Type
Descriptive	How do I allocate my budget to buy different inventory terms? Analytics Type
Diagnostic	Which people are mentioned in a company's business documents? Analytics Type
Predictive	
Prescriptive	

Correct Answer:

Cognitive	Why did sales increase last month? Diagnostic
	How do I allocate my budget to buy different inventory terms? Predictive
	Which people are mentioned in a company's business documents? Descriptive
Prescriptive	

Box 1: Diagnostic

Diagnostic Analytics: At this stage you can begin to answer some of those why questions. Historical data can begin to

be measured against other data to answer the question of why something happened in the past. This is the process of gathering and interpreting different data sets to identify anomalies, detect patterns, and determine relationships.

Box 2: Prescriptive

Prescriptive analytics is a combination of data, mathematical models, and various business rules to infer actions to influence future desired outcomes.

Incorrect Answer:

Predictive analytics, broadly speaking, is a category of business intelligence that uses descriptive and predictive variables from the past to analyze and identify the likelihood of an unknown future outcome

Box 3: Descriptive

Generally speaking, data analytics comes in four types:

Descriptive, to answer the question: What's happening?

Diagnostic, to answer the question: Why's happening?

Predictive, to answer the question: What will happen?

Prescriptive, to answer the question: What actions should we take?



Reference: <https://demand-planning.com/2020/01/20/the-differences-between-descriptive-diagnostic-predictive-cognitive-analytics/> <https://azure.microsoft.com/en-us/blog/answering-whats-happening-whys-happening-and-what-will-happen-with-iot-analytics/>

QUESTION 15

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

Hot Area:

A key/value data store is optimized for

enforcing constraints
simple lookups
table joins
transactions

Correct Answer:

A key/value data store is optimized for

enforcing constraints
simple lookups
table joins
transactions

Box 1: simple lookups A key/value store associates each data value with a unique key. Most key/value stores only support simple query, insert, and delete operations. To modify a value (either partially or completely), an application must overwrite the existing data for the entire value. In most implementations, reading or writing a single value is an atomic operation.

An application can store arbitrary data as a set of values. Any schema information must be provided by the application. The key/value store simply retrieves or stores the value by key.

Reference: <https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/data-store-overview>

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