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**Vendor:**Microsoft

**Exam Code:**DP-900

**Exam Name:**Microsoft Azure Data Fundamentals

**Version:**Demo

**QUESTION 1**

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

Hot Area:

**Relational data uses**

<b>collections</b>
<b>columns</b>
<b>keys</b>
<b>partitions</b>

**to enforce relationships  
between different tables.**

Correct Answer:

**Relational data uses**

<b>collections</b>
<b>columns</b>
<b>keys</b>
<b>partitions</b>

**to enforce relationships  
between different tables.**

Reference: <https://teachcomputerscience.com/relational-databases/>

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**QUESTION 2**

HOTSPOT

Select the answer that correctly completes the sentence.

Hot Area:

is an object associated with a table that sorts  
and stores data rows based on their key values.

Correct Answer:

**A clustered index** is an object associated with a table that sorts and stores data rows based on their key values.

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### QUESTION 3

#### HOTSPOT

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

Hot Area:

physically sorts the data in a table based on the values in a specified column.

A view
<b>A clustered index</b>
A stored procedure
A nonclustered index

Correct Answer:

physically sorts the data in a table based on the values in a specified column.

A view
<b>A clustered index</b>
A stored procedure
A nonclustered index

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/indexes/clustered-and-nonclustered-indexes-described?view=sql-server-ver15>

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### QUESTION 4

You are writing a set of SQL queries that administrators will use to troubleshoot an Azure SQL database.

You need to embed documents and query results into a SQL notebook.

What should you use?

- A. Microsoft SQL Server Management Studio (SSMS)
- B. Azure Data Studio

C. Azure CLI

D. Azure PowerShell

Correct Answer: B

Reference: <https://www.mssqltips.com/sqlservertip/5997/create-sql-server-notebooks-in-azure-data-studio/>

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#### **QUESTION 5**

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

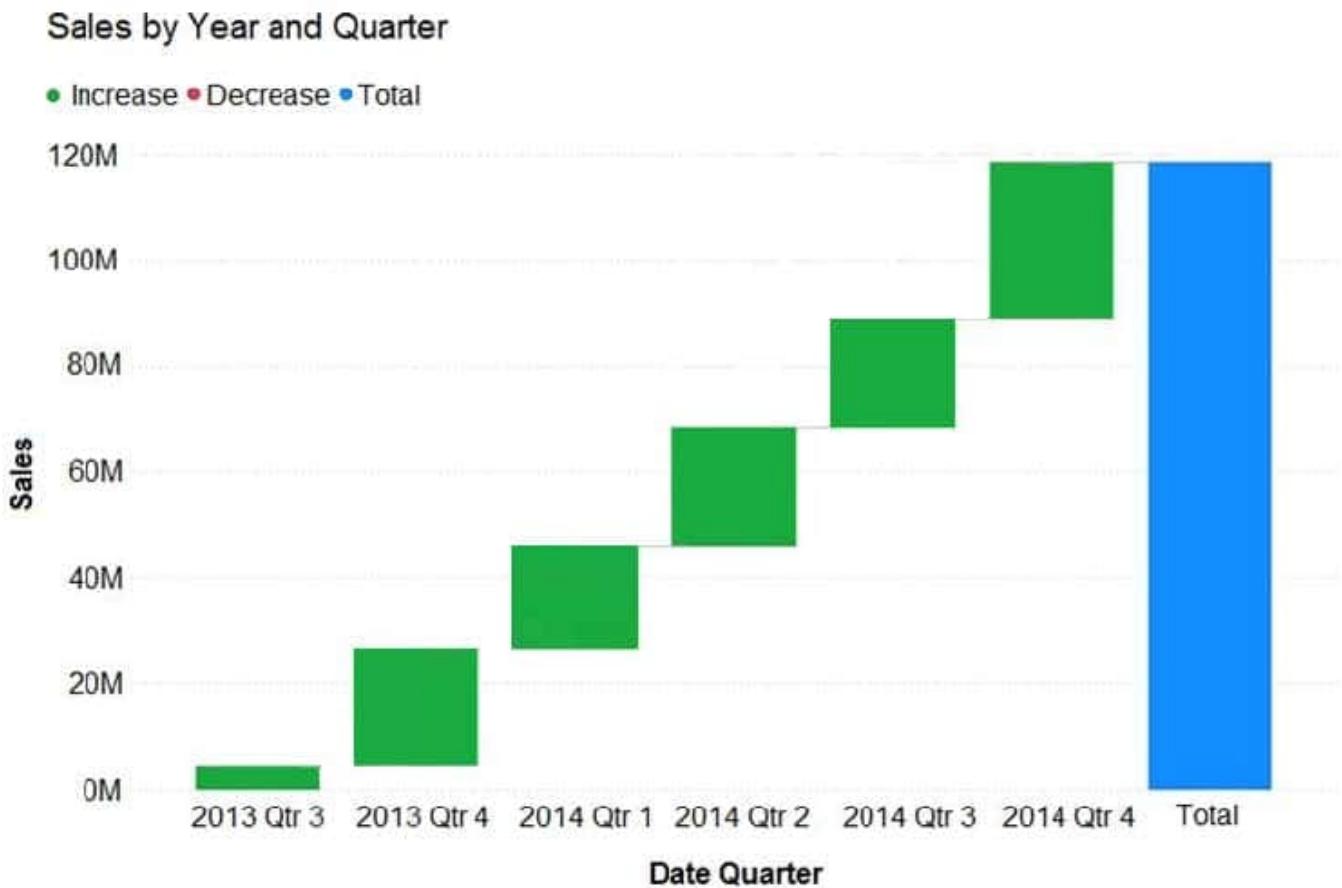
Correct Answer: D

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

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#### **QUESTION 6**

You need to create a visualization of running sales totals per quarter as shown in the following exhibit.



What should you create in Power BI Desktop?

- A. a waterfall chart
- B. a ribbon chart
- C. a bar chart
- D. a decomposition tree

Correct Answer: A

Reference: <https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-types-for-reports-and-q-and-a>

### QUESTION 7

What is a characteristic of batch processing?

- A. The data ingested during batch processing must be processed as soon as the data is received.
- B. Large datasets must be split into batches of less than 1 GB before the data can be processed.
- C. There is a noticeable time delay between ingesting data and obtaining the data processing results.
- D. Batch processing can only process data that is structured.

Correct Answer: D

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### QUESTION 8

You need to design and model a database by using a graphical tool that supports project-oriented offline database development.

What should you use?

- A. Microsoft SQL Server Data Tools (SSDT)
- B. Microsoft SQL Server Management Studio (SSMS)
- C. Azure Databricks
- D. Azure Data Studio

Correct Answer: A

Reference: <https://docs.microsoft.com/en-us/sql/ssdt/project-oriented-offline-database-development?view=sql-serverver15>

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### QUESTION 9

A bar chart showing year-to-date sales by region is an example of which type of analytics?

- A. Predictive
- B. Prescriptive
- C. Diagnostic
- D. Descriptive

Correct Answer: C

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### QUESTION 10

HOTSPOT

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

Creating closed caption text for audio files is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

analytics.

Hot Area:

Creating closed caption text for audio files is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

analytics.

Correct Answer:

Creating closed caption text for audio files is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

analytics.

			
<b>Descriptive</b> <i>What's happening?</i>	<b>Diagnostic</b> <i>Why's happening?</i>	<b>Predictive</b> <i>What will happen?</i>	<b>Prescriptive</b> <i>What actions should we take?</i>

Note: Azure Media Indexer enables you to make content of your media files searchable and to generate a full-text transcript for closed captioning and keywords. You can process one media file or multiple media files in a batch.

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**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:

**Yes No**

**Azure Databricks is an Apache Spark-based collaborative analytics platform**

**Azure Analysis Services is used for transactional workloads**

**Azure Data Factory orchestrates data integration workflows**

Correct Answer:

**Yes No**

**Azure Databricks is an Apache Spark-based collaborative analytics platform**

**Azure Analysis Services is used for transactional workloads**

**Azure Data Factory orchestrates data integration workflows**



Reference: <https://docs.microsoft.com/en-us/azure/databricks/scenarios/what-is-azure-databricks>  
<https://docs.microsoft.com/en-us/azure/analysis-services/analysis-services-overview> <https://docs.microsoft.com/en-us/azure/data-factory/introduction>

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## QUESTION 12

You are deploying a software as a service (SaaS) application that requires a relational database for Online Transaction Processing (OLTP). Which Azure service should you use to support the application?

- A. Azure Cosmos DB
- B. Azure HDInsig
- C. Azure SQL Database
- D. Azure Synapse Analytics

Correct Answer: C

Azure SQL Database is relational database and a managed service.

Incorrect Answers:

A, B: Cosmos DB, HDInsight are non-relational databases.

D: Azure Synapse Analytics is for data warehousing, not for Online Transaction Processing

Reference: <https://cloud.netapp.com/blog/azure-cvo-blg-azure-database-review-your-guide-for-database-assessment>