DUMPSQUEEN

Microsoft Azure Data Fundamentals

Microsoft DP-900

Version Demo

Total Demo Questions: 15

Total Premium Questions: 297

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Topic Break Down

Topic	No. of Questions
Topic 1, New Update	**141**
Topic 2, Describe core data concepts	**49**
Topic 3, Describe how to work with relational data on Azure	**38**
Topic 4, Describe how to work with non-relational data on Azure	**32**
Topic 5, Describe an analytics workload on Azure	**37**
Total	**297**

You have an inventory management database that contains the following table.

ProductName	Quantity
Product1	100
Product2	129
Product3	176

Which statement should you use in a SQL query to change the inventory quantity of Product1 to 270?

A. INSERT

B. MERGE

C. UPDATE

D. CREATE

ANSWER: C

Explanation:

Reference: https://docs.microsoft.com/en-us/sql/t-sql/queries/update-transact-sql?view=sql-server-ver15

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

Explanation:

Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/authentication-mfa-ssms-overview

QUESTION NO: 3

What are three characteristics of an Online Transaction Processing (OLTP) workload? Each correct answer presents a complete solution.

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 defined in a database

E. schema defined when reading unstructured data from a database

F. normalized data

ANSWER: B D F

Explanation:

B: Transactional data tends to be heavy writes, moderate reads.

D: Typical traits of transactional data include: schema on write, strongly enforced. The schema is defined in a database. F: Transactional data tends to be highly normalized.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/online-transaction-processing

QUESTION NO: 4

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

ANSWER: D

Explanation:

Reference:

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

QUESTION NO: 5

Your company has a reporting solution that has paginated reports. The reports query a dimensional model in a data warehouse.

Which type of processing does the reporting solution use?

A. stream processing

B. batch processing

C. Online Analytical Processing (OLAP)

D. Online Transaction Processing (OLTP)

ANSWER: C

Explanation:

Reference:

https://datawarehouseinfo.com/how-does-oltp-differ-from-olap-database/

QUESTION NO: 6 - (DRAG DROP)

DRAG DROP

Match the security components to the appropriate scenarios.

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

NOTE: Each correct match is worth one point.

Select and Place:

Components	Answer Area	
Authentication		Prevent access to an Azure SQL database from another network.
Firewall		Support Azure Active Directory (Azure AD) sign-ins to an Azure SQL database.
Encryption		Ensure that sensitive data never appears as plain text in an Azure SQL database.

ANSWER:

Components	Answer Area	
Authentication	Firewall	Prevent access to an Azure SQL database from another network.
Firewall	Authentication	Support Azure Active Directory (Azure AD) sign-ins to an Azure SQL database.
Encryption	Encryption	Ensure that sensitive data never appears as plain text in an Azure SQL database.

Explanation:

Reference:

https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-a-windows-firewall-for-database-engine-access?view=sql-serverver15 https://docs.microsoft.com/en-us/azure/azure-sql/database/authentication-aad-overview https://docs.microsoft.com/en-us/azure/azure-sql/database/always-encrypted-certificate-store-configure

QUESTION NO: 7 - (DRAG DROP)

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:

Analytics Types	Answer Area	
Cognitive	Why did sales increase last month?	
Diagnostic	Provide specific guidance on how to allocate current budget to buy different inventory items.	
Descriptive	Detect images of the company's logo included in PDF documents	
Predictive		
Prescriptive		

ANSWER:

Analytics Types

| Cognitive |
| Diagnostic |
| Descriptive |
| Predictive |
| Prescriptive |

Answer Area

Why did sales increase last month?

Provide specific guidance on how to allocate current budget to buy different inventory items.

Detect images of the company's logo included in PDF documents

| Diagnostic |
| Prescriptive |
| Cognitive |

Answer: Incorrect 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: Cognitive 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/

Explanation:

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 patters, 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.

Answer: Incorrect

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: Cognitive

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 NO: 8

Which two activities can be performed entirely by using the Microsoft Power BI service without relying on Power BI Desktop? Each correct answer presents a complete solution.

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: A D

QUESTION NO: 9 - (SIMULATION)

Select the answer the correctly completes the sentence.

Answer Area

[▼] is responsible for managing the security of the data in a database.

ANSWER: Seetheanswerinexplanationbelow.

Explanation:

Answer below as:

Answer Area

[A database administrator ▼] is responsible for managing the security of the data in a database.

QUESTION NO: 10 - (SIMULATION)

Select the answer that correctly completes the sentence.

Answer Area

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

ANSWER: Seetheanswerinexplanationbelow.

Explanation:

Answer below as:

Answer Area

The massively parallel processing (MPP) engine
of Azure Synapse Analytics | distributes processing across compute nodes. ▼ |

QUESTION NO: 11

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

ANSWER: D

Explanation:

Reference:

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

QUESTION NO: 12

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.

NOTE: Each correct selection is worth one point.

A. the throughput

B. the read region

C. the partition key

D. the API

ANSWER: A C

Explanation:

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

QUESTION NO: 13

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. access to the latest features

B. complete control over backup and restore processes

C. in-database machine learning services

D. reduced administrative effort for managing the server infrastructure

ANSWER: A D

Explanation:

A: Azure SQL Database is a fully managed platform as a service (PaaS) database engine that handles most of the database management functions such as upgrading, patching, backups, and monitoring without user involvement.

D: SQL Database delivers predictable performance with multiple resource types, service tiers, and compute sizes. It provides dynamic scalability with no downtime, built-in intelligent optimization, global scalability and availability, and advanced security options. These capabilities allow you to focus on rapid app development and accelerating your time-to-market, rather than on managing virtual machines and infrastructure.

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/sql-database-paas-overview

QUESTION NO: 14 - (HOTSPOT)

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:

Answer Area

Statements	Yes	No
Azure Table storage within a single Azure Storage account supports multiple concurrent reads in different Azure regions.	○	○
Azure Table storage within a single Azure Storage account supports multiple concurrent writes in different Azure regions.	○	○
An Azure Cosmos DB account that uses the Table API supports multiple concurrent reads in different Azure regions.	○	○
An Azure Cosmos DB account that uses the Table API supports multiple concurrent writes in different Azure regions.	○	○

ANSWER:

Answer Area

Statements	Yes	No
Azure Table storage within a single Azure Storage account supports multiple concurrent reads in different Azure regions.	●	○
Azure Table storage within a single Azure Storage account supports multiple concurrent writes in different Azure regions.	○	●
An Azure Cosmos DB account that uses the Table API supports multiple concurrent reads in different Azure regions.	●	○
An Azure Cosmos DB account that uses the Table API supports multiple concurrent writes in different Azure regions.	●	○

Explanation:

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.

Reference: https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy
https://manojchoudhari.wordpress.com/2019/12/16/azure-cosmos-db-enable-multi-region-writes

QUESTION NO: 15 - (HOTSPOT)

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:

Answer Area

Statements	Yes	No
Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.	O	O
Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.	O	O
Azure Data Studio can be used to restore a database.	O	O

ANSWER:

Answer Area

Statements	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.	◉	○

Explanation:

Box 1: Yes

Azure Data Studio is a cross-platform database tool for data professionals using on-premises and cloud data platforms on Windows, macOS, and Linux.

You can use Azure Data Studio to connect to an Azure SQL Database server. You'll then run Transact-SQL (T-SQL) statements to create and query Azure SQL databases.

Box 2: No

SQL Server Management Studio is for configuring, managing, and administering all components within Microsoft SQL Server, not to create SQL notebooks. Instead use Azure Data Studio to create SQL notebook.

Box 3: Yes

You can use the Azure Data Studio to restore databases.

Reference:

https://docs.microsoft.com/en-us/sql/azure-data-studio/what-is-azure-data-studio