Microsoft

Exam Questions DP-900

Microsoft Azure Data Fundamentals
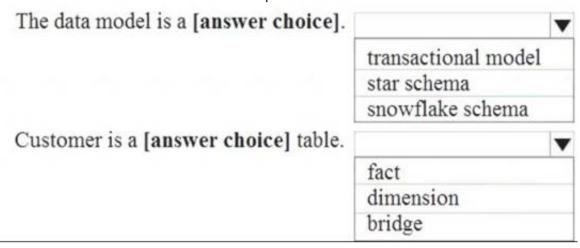
NEW QUESTION 1

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

```
┌──────────────────────┐                    ┌──────────────────────┐
│      Customer        │                    │      Product         │
│  Key: CustomerID     │                    │  Key: ProductID      │
│  Foreign Keys: None  │                    │  Foreign Keys: None  │
└──────────────────────┘                    └──────────────────────┘
                  │              ┌───────────┘
                  ▼              ▼
         ┌────────────────────────────────────┐
         │              Sales                 │
         │          Key: SalesID,             │
         │  Foreign Keys: CustomerID, ProductID, │
         │      SalesPersonID, WarehouseID    │
         └────────────────────────────────────┘
                  ▲              ▲
                  │              └───────────┐
┌──────────────────────┐                    ┌──────────────────────┐
│    SalesPerson       │                    │      Warehouse       │
│  Key: SalesPersonID  │                    │  Key: WarehouseID    │
│  Foreign Keys: None  │                    │  Foreign Keys: None  │
└──────────────────────┘                    └──────────────────────┘
```

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

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

Answer Area

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

distributes processing across compute nodes.
distributes processing across control nodes.
redirects client connections across compute nodes.
redirects client connections across control nodes.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

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

> Distributes processing across compute nodes.
> Distributes processing across control nodes.
> Redirects client connections across compute nodes.
> Redirects client connections across control nodes.

NEW QUESTION 3
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 4
To complete the sentence, select the appropriate option in the answer area.

Batch workloads ▼

> process data in memory, row-by-row.
> collect and process data at most once a day.
> process data as new data is received in near real-time.
> collect data and then process the data when a condition is met.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Batch workloads ▼

> process data in memory, row-by-row.
> collect and process data at most once a day.
> process data as new data is received in near real-time.
> collect data and then process the data when a condition is met.

NEW QUESTION 5
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.
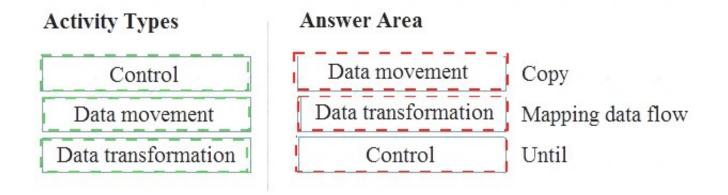NOTE: Each correct match is worth one point.

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 movement — Copy

Data transformation — Mapping data flow

Control — Until

NEW QUESTION 6
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 7
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 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

Answer: A

NEW QUESTION 9
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 10
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 Table storage supports multiple read replicas.	○	○
Azure Table storage supports multiple write regions.	○	○
The Azure Cosmos DB Table API supports multiple read replicas.	○	○
The Azure Cosmos DB Table API supports multiple write regions.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure Table storage supports multiple read replicas.	○	○
Azure Table storage supports multiple write regions.	○	○
The Azure Cosmos DB Table API supports multiple read replicas.	○	○
The Azure Cosmos DB Table API supports multiple write regions.	○	○

NEW QUESTION 10
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.

Analytics Types

Cognitive	Descriptive	Diagnostic	Predictive	Prescriptive

Answer Area

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Analytics Types

Cognitive	Descriptive	Diagnostic	Predictive	Prescriptive

Answer Area

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

NEW QUESTION 15
Which scenario is an example of a streaming workload?

A. sending transactions that are older than a month to an archive
B. sending transactions daily from point of sale (POS) devices
C. sending telemetry data from edge devices
D. sending cloud infrastructure metadata every 30 minutes

Answer: C

NEW QUESTION 18
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 SQL Database includes a fully managed backup service.	○	○
Azure SQL Database has built-in high availability.	○	○
Azure SQL Database can use Azure Advanced Threat Protection (ATP).	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure SQL Database includes a fully managed backup service.	⊙	○
Azure SQL Database has built-in high availability.	⊙	○
Azure SQL Database can use Azure Advanced Threat Protection (ATP).	⊙	○

NEW QUESTION 21
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.

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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

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.

NEW QUESTION 26
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 29
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.	○	○
Azure Analysis Services is used for transactional workloads.	○	○
Azure Data Factory orchestrates data integration workflows.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	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.	○	○

NEW QUESTION 32
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.	○	○
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	○	○
You can use MySQL Workbench to query Azure Database for MariaDB databases.	○	○

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.	○	○
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	○	○
You can use MySQL Workbench to query Azure Database for MariaDB databases.	○	○

NEW QUESTION 36
Which setting can only be configured during the creation of an Azure Cosmos DB account?

A. geo-redundancy
B. multi-region writes
C. production or non-reduction account type
D. API

Answer: C

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.

Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	○	○
You need a Microsoft 365 subscription to create an Azure SQL database.	○	○
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	○	○
You need a Microsoft 365 subscription to create an Azure SQL database.	○	○
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	○	○

NEW QUESTION 44

Which Azure storage solution provides native support for POSIX-compliant access control lists (ACLs)?

A. Azure Queue storage
B. Azure Data Lake Storage
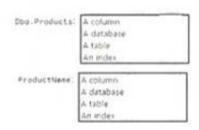C. Azure table storage
D. Azure Files

Answer: C

NEW QUESTION 47

You have the following SQL query.

```
INSERT INTO dbo.Products (ProductID, ProductName, Price, ProductDescription)
    VALUES (1, 'Clamp', 12.48, 'Workbench clamp') ;
```

NOTE: Each correct selection is worth one point.

Answer Area

Dbo.Products:	A column A database A table An index
ProductName:	A column A database A table An index

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

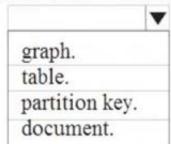| Dbo.Products:	A column A database A table An index
ProductName:	A column A database A table An index

NEW QUESTION 48
To complete the sentence, select the appropriate option in the answer area.

When using the Azure Cosmos DB Gremlin API, the container resource type is projected as a [▼]
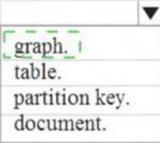
- graph.
- table.
- partition key.
- document.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

When using the Azure Cosmos DB Gremlin API, the container resource type is projected as a [▼]

- graph.
- table.
- partition key.
- document.

NEW QUESTION 52
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 56
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 57
You need to store data in Azure Blob storage for seven years to meet your company's compliance requirements. The retrieval time of the data is unimportant. The solution must minimize storage costs. Which storage tier should you use?

A. Archive
B. Hot
C. Cool

Answer: A

NEW QUESTION 62
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 66
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 67
At which level in Azure Cosmos DB can you configure multiple write regions and read regions?

A. database
B. partition
C. collection
D. account

Answer: C

NEW QUESTION 71
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.	○	○
You can use blob, table, and file storage in the same Azure Storage account.	○	○
You implement Azure Data Lake Storage by creating an Azure Storage account.	○	○

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.	○	○
You can use blob, table, and file storage in the same Azure Storage account.	○	○
You implement Azure Data Lake Storage by creating an Azure Storage account.	○	○

NEW QUESTION 75
You need to recommend a non-relational data store that is optimized for storing and retrieving files, videos, audio stream, and virtual disk images. The data store must store data, some metadata, and a unique ID for each file.
Which type of data store should you recommend?

A. document
B. key/value
C. object
D. columnar

Answer: C

NEW QUESTION 77
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
If you have a platform as a service (PaaS) database in Azure, you are responsible for applying operating system updates.	○	○
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	○	○
If you have a platform as a service (PaaS) database in Azure, you are responsible for upgrading the database engine.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

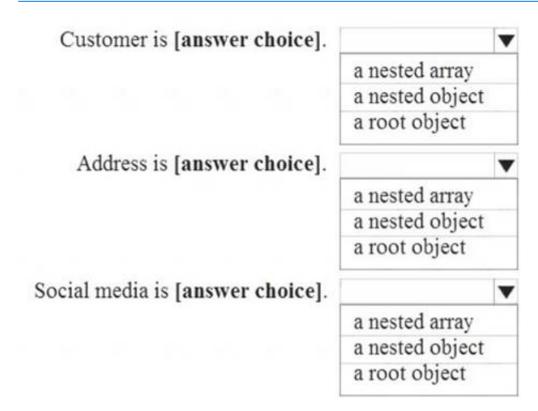| Statements	Yes	No
If you have a platform as a service (PaaS) database in Azure, you are responsible for applying operating system updates.	☑	○
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	○	☑
If you have a platform as a service (PaaS) database in Azure, you are responsible for upgrading the database engine.	☑	○

NEW QUESTION 80
You have the following JSON document.

```
"customer" : {
    "first name" : "Ben",
    "last name" : "Smith",
    "address" : {
        "line 1" : "161 Azure Ln",
        "line 2" : "Palo Alto",
        "ZIP code" : "54762"
    },
    "social media": [
        {
            "service" : "twitter",
            "handle" : "@bensmith"
        },
        {
            "service" : "linkedin",
            "handle" : "bensmith"
        }
    ],
    "phone numbers": [
        {
            "type" : "mobile",
            "number" : "555-555-555"
        }
    ]
}
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the JSON document.
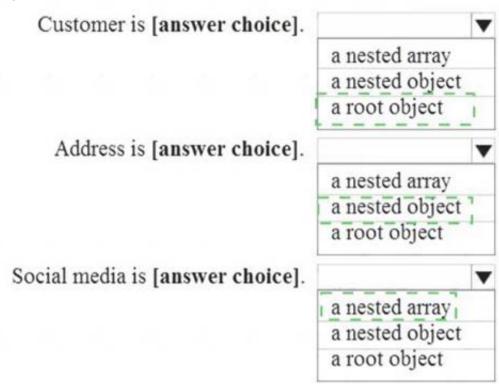NOTE: Each correct selection is worth one point.

Customer is **[answer choice]**.
- a nested array
- a nested object
- a root object

Address is **[answer choice]**.
- a nested array
- a nested object
- a root object

Social media is **[answer choice]**.
- a nested array
- a nested object
- a root object

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Customer is **[answer choice]**.
- a nested array
- a nested object
- a root object

Address is **[answer choice]**.
- a nested array
- a nested object
- a root object

Social media is **[answer choice]**.
- a nested array
- a nested object
- a root object

NEW QUESTION 83
To complete the sentence, select the appropriate option in the answer area.

A relational database must be used when
- a dynamic schema is required.
- data will be stored as key/value pairs.
- storing large images and videos.
- strong consistency guarantees are required.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

A relational database must be used when
- a dynamic schema is required.
- data will be stored as key/value pairs.
- storing large images and videos.
- strong consistency guarantees are required.

NEW QUESTION 84
To complete the sentence, select the appropriate option in the answer area.

Answer Area

Relational data is stored in

| a file system as unstructured data. |
| a hierarchial folder structure. |
| a tabular form of rows and columns. |
| comma-separated value (CSV) files. |

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Relational data is stored in

| a file system as unstructured data. |
| a hierarchial folder structure. |
| a tabular form of rows and columns. |
| comma-separated value (CSV) files. |

NEW QUESTION 89
You have a table named Sales that contains the following data.

SalesDate	SalesAmount	ProductID
4-Apr-20	$2,000	1
5-Apr-20	$40	2
5-Apr-20	$2,300	1
6-Apr-20	$40	3
6-Apr-20	$200	4

You need to query the table to return the average sales amount day. The output must produce the following results.

SalesDate	AVG(SalesAmount)
4-Apr-20	$2,000
5-Apr-20	$1,170
6-Apr-20	$120

How should you complete the query? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all.
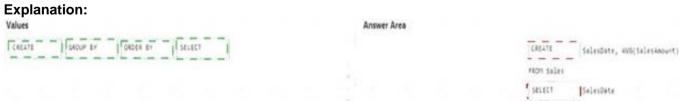You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Values

| CREATE | GROUP BY | ORDER BY | SELECT |

Answer Area

Value   SalesDate, AVG(SalesAmount)
FROM Sales
Value   SalesDate

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Values

| CREATE | GROUP BY | ORDER BY | SELECT |

Answer Area

CREATE   SalesDate, AVG(SalesAmount)
FROM Sales
SELECT   SalesDate

NEW QUESTION 90
A team of developers has computers Thai run Windows 10 and Ubuntu Desktop.
The developers need to connect to and query an Azure SCX database from the computers. The developers require code assistance features such as intellSense.
What should the developers use ?

A. Azure Data Studio
B. sq1cmd
C. Microsoft SQL Server Management Studio (SSMS)
D. Azure Data Explorer

Answer: B

NEW QUESTION 95

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
Processing salary payments once a month is an example of a batch workload.	○	○
A wind turbine that sends 50 sensor readings per second is an example of a streaming workload.	○	○
A home electricity meter that sends readings once a day to an energy provider is an example of a streaming workload.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Processing salary payments once a month is an example of a batch workload.	⊙	○
A wind turbine that sends 50 sensor readings per second is an example of a streaming workload.	⊙	○
A home electricity meter that sends readings once a day to an energy provider is an example of a streaming workload.	○	⊙

NEW QUESTION 98
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