

Microsoft

Exam Questions DP-900

Microsoft Azure Data Fundamentals



NEW QUESTION 1

Which Azure SQL offering supports automatic database scaling and automatic pausing of the database during inactive periods?

- A. Azure SQL Database Hyperscale
- B. Azure SQL managed instance
- C. Azure SQL Database serverless
- D. Azure SQL Database elastic pod

Answer: B

NEW QUESTION 2

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

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

Answer: B

NEW QUESTION 3

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

Creating closed caption text for audio files is an example of analytics.

▼

cognitive

descriptive

predictive

prescriptive

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated with low confidence
 Descriptive, to answer the question: What's happening? Company name Description automatically generated



Descriptive
What's happening?



Diagnostic
Why's happening?



Predictive
What will happen?



Prescriptive
What actions should we take?

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.

NEW QUESTION 4

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

Transparent Data Encryption (TDE) encrypts

▼

a column to protect data at rest and in transit.

queries and their results in order to protect data in transit.

the database to protect data at rest.

the server to protect data at rest.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Transparent Data Encryption (TDE) encrypts

	▼
a column to protect data at rest and in transit.	
queries and their results in order to protect data in transit.	
the database to protect data at rest.	
the server to protect data at rest.	

NEW QUESTION 5

You need to store event log data that is semi-structured and received as the logs occur. What should you use?

- A. Azure Table storage
- B. Azure Queue storage
- C. Azure Files

Answer: B

NEW QUESTION 6

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.	<input type="radio"/>	<input type="radio"/>
Azure Table storage supports multiple write regions.	<input type="radio"/>	<input type="radio"/>
The Azure Cosmos DB Table API supports multiple read replicas.	<input type="radio"/>	<input type="radio"/>
The Azure Cosmos DB Table API supports multiple write regions.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure Table storage supports multiple read replicas.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Table storage supports multiple write regions.	<input type="radio"/>	<input checked="" type="radio"/>
The Azure Cosmos DB Table API supports multiple read replicas.	<input checked="" type="radio"/>	<input type="radio"/>
The Azure Cosmos DB Table API supports multiple write regions.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 7

What is a characteristic of a non-relational database?

- A. a fixed schema
- B. self-describing entities
- C. full support for Transact-SQL

Answer: C

NEW QUESTION 8

Which database transaction property ensures that individual transactions are executed only once and either succeed in their entirety or roll back?

- A. isolation
- B. durability
- C. atomicity
- D. consistency

Answer: C

NEW QUESTION 9

Your company needs to ensure that in Azure virtual machine can connect to Azure SQL databases without exposing the databases to the internet. What should you use?

- A. Azure DNS
- B. Azure Application Gateway
- C. Azure Private link
- D. Azure Traffic Manager

Answer: C

Explanation:

Azure Private Link enables you to access Azure PaaS Services (for example, Azure Storage and SQL Database) and Azure hosted customer-owned/partner services over a private endpoint in your virtual network. Traffic between your virtual network and the service travels the Microsoft backbone network. Exposing your service to the public internet is no longer necessary

NEW QUESTION 10

Match the Azure Cosmos DB APIs to the appropriate data structures.

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

NOTE: Each correct match is worth one point.

APIs

- Cassandra API
- Gremlin API
- MongoDB API
- Table API

Answer Area

- Graph data
- JSON documents
- Key/value data

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

APIs

- Cassandra API
- Gremlin API
- MongoDB API
- Table API

Answer Area

- Gremlin API
- MongoDB API
- Table API
- Graph data
- JSON documents
- Key/value data

NEW QUESTION 10

You have a transactional application that stem data in an Azure SQL managed instance. When should you implement a read-only database replica?

- A. You need to generate reports without affecting the transactional workload.
- B. You need to audit the transactional application.
- C. You need to implement high availability in the event of a regional outage
- D. You need to improve the recovery point objective (RPO).

Answer: A

Explanation:

Use read-only replicas to offload read-only query workloads.

NEW QUESTION 11

Match the Azure SQL services to the appropriate use cases.

To answer, drag the appropriate service from the column on the left to its use case on the right. Each service may be used once, more than once, or not at all.
 NOTE: Each correct match is worth one point.

Azure SQL services

- Azure SQL Database elastic pool
- Azure SQL Database single database
- Azure SQL Managed Instance

Answer Area

- A serverless configuration
- A database that has the highest compatibility with on-premises Microsoft SQL Server
- A low-cost, low-maintenance database

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Azure SQL services

- Azure SQL Database elastic pool
- Azure SQL Database single database
- Azure SQL Managed Instance

Answer Area

- Azure SQL Database single database
- Azure SQL Database elastic pool
- Azure SQL Managed Instance

NEW QUESTION 13

Your company plans to load data from a customer relationship management (CRM) system to a data warehouse by using an extract load, and transform (ELT) process.

Where does data processing occur for each stage of the ELT process? To answer, drag the appropriate locations to the correct. Each location may be used 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.

Locations

- An in-memory data integration tool
- The CRM system
- The data warehouse

Answer Area

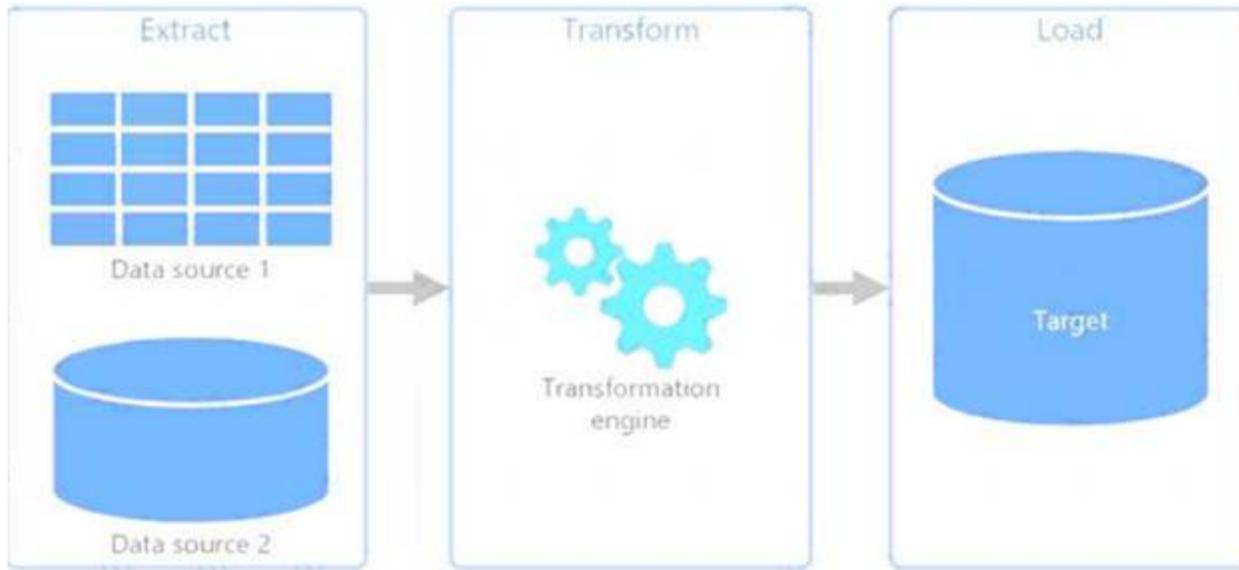
- Extract: Location
- Load: Location
- Transform: Location

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: The CRM system
 Data is extracted from the CRM system. Box 2: The data warehouse
 Data is loaded to the data warehouse.
 Box 3: An in-memory data integration tool
 The data transformation that takes place usually involves various operations, such as filtering, sorting, aggregating, joining data, cleaning data, deduplicating, and validating data.



NEW QUESTION 18

Which three objects can be added to a Microsoft Power BI dashboard? Each correct answer presents a complete solution. (Choose three.)
 NOTE: Each correct selection is worth one point.

- A. a report page
- B. a Microsoft PowerPoint slide
- C. a visualization from a report
- D. a dataflow
- E. a text box

Answer: ACE

NEW QUESTION 21

You have data saved in the following format:

```
<Person Age="23">
  <FirstName>John</FirstName>
  <LastName>Smith</LastName>
  <Hobbies>
    <Hobby Type="Sports">Golf</Hobby>
    <Hobby Type="Leisure">Reading</Hobby>
    <Hobby Type="Leisure">Guitar</Hobby>
  </Hobbies>
</Person>
```

Which format was used?

- A. YAML
- B. HTML
- C. XML
- D. JSON

Answer: B

NEW QUESTION 23

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

You can query a graph database in Azure Cosmos DB as nodes and edges by using the Gremlin language.

NEW QUESTION 26

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

The Azure Cosmos DB  API enables the use of SELECT statements to retrieve documents from Azure Cosmos DB.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated
 Azure Cosmos DB SQL API accounts provide support for querying items using the Structured Query Language (SQL) syntax.

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 SQL Database includes a fully managed backup service.	<input type="radio"/>	<input type="radio"/>
Azure SQL Database has built-in high availability.	<input type="radio"/>	<input type="radio"/>
Azure SQL Database can use Azure Advanced Threat Protection (ATP).	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Azure SQL Database includes a fully managed backup service.	<input checked="" type="radio"/>	<input type="radio"/>
Azure SQL Database has built-in high availability.	<input checked="" type="radio"/>	<input type="radio"/>
Azure SQL Database can use Azure Advanced Threat Protection (ATP).	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 34

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.	<input type="radio"/>	<input type="radio"/>
If you have a platform as a service (PaaS) database in Azure, backups are performed automatically.	<input type="radio"/>	<input type="radio"/>
If you have a platform as a service (PaaS) database in Azure, you are responsible for upgrading the database engine.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: No
 Microsoft handles all patching and updating of the SQL and operating system code. You don't have to manage the underlying infrastructure.
 Box 2: Yes
 SQL Database is a fully managed service that has built-in high availability, backups, and other common maintenance operations.

Box 3: No

NEW QUESTION 35

Which storage solution supports access control lists (ACLs) at the file and folder level?

- A. Azure Data Lake Storage
- B. Azure Cosmos DB
- C. Azure Queue storage
- D. Azure Blob storage

Answer: A

Explanation:

Azure Data Lake Storage Gen2 implements an access control model that supports both Azure role-based access control (Azure RBAC) and POSIX-like access control lists (ACLs).

NEW QUESTION 39

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 40

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

- Authentication
- Firewall
- Encryption

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Components

- Authentication
- Firewall
- Encryption

Answer Area

- Firewall Prevent access to an Azure SQL database from another network.
- Authentication 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.

NEW QUESTION 45

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

Explanation:

Object storage is optimized for storing and retrieving large binary objects (images, files, video and audio streams, large application data objects and documents, virtual machine disk images). Large data files are also popularly used in this model, for example, delimiter file (CSV), parquet, and ORC. Object stores can

manage extremely large amounts of unstructured data.

NEW QUESTION 48

What should you use to automatically delete blobs from Azure Blob Storage?

- A. soft delete
- B. archive storage
- C. the change feed
- D. a lifecycle management policy

Answer: D

NEW QUESTION 49

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 (RBAC)
- C. Dynamic Host Configuration Protocol (DHCP)
- D. Domain Name Service (DNS)

Answer: A

Explanation:

The Azure SQL Database firewall lets you decide which IP addresses may or may not have access to either your Azure SQL Server or your Azure SQL database. When creating an Azure SQL Database, the firewall needs to be configured before anyone will be able to access the database. By default, no external access to your SQL Database will be allowed until you explicitly assign permission by creating a firewall rule.

NEW QUESTION 54

Select the answer that correctly completes the sentence.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Relational data is stored in a tabular form of rows and columns.

NEW QUESTION 59

Which statement is an example of Data Manipulation Language (DML)?

- A. REVOKE
- B. DISABLE
- C. CREATE
- D. UPDATE

Answer: D

Explanation:

Data Manipulation Language (DML) affect the information stored in the database. Use these statements to insert, update, and change the rows in the database. BULK INSERT DELETE INSERT SELECT UPDATE MERGE

NEW QUESTION 63

You need to create an Azure resource to store data in Azure Table storage. Which command should you run?

- A. az scorage share create
- B. az scorage account creace
- C. az cosmosdb creace
- D. az scorage concainer creace

Answer: D

NEW QUESTION 66

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 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.

- A. Mastered
- B. Not Mastered

Answer: A

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.

NEW QUESTION 68

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

natively support the analysis of relationships between entities.

Column family databases
Document databases
Graph databases
Key-value stores

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated

NEW QUESTION 70

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

Answer Area

enables users to create highly formatted,

archiving.

dashboard
interactive report
paginated report
subscription

- 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 71

Match the types of workloads to the appropriate scenarios.

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.

Workload Types

- Batch
- Streaming

Answer Area

- Workload Type Analyzing web traffic from the past year
- Workload Type Classifying images that were uploaded last month
- Workload Type Tracking how many people are currently using a website

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Batch

Batch processing refers to the processing of blocks of data that have already been stored over a period of time. Box 2: Streaming

Stream processing is a big data technology that allows us to process data in real-time as they arrive and detect conditions within a small period of time from the point of receiving the data. It allows us to feed data into analytics tools as soon as they get generated and get instant analytics results. Box 3: Batch

NEW QUESTION 76

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: BDF

NEW QUESTION 77

Which Azure SQL offering provides near-100 percent compatibility with on-premises Microsoft SQL Server instances, while providing automated updates, backups, and maintenance tasks?

- A. Azure SQL Managed Instance
- B. SQL Server on Azure Virtual Machines
- C. Azure SQL Edge
- D. Azure SQL Database

Answer: A

NEW QUESTION 80

Which type of database is Azure Database for PostgreSQL?

- A. Platform as a service (PaaS)
- B. Infrastructure as a service (IaaS)
- C. Microsoft SQL Server
- D. on-premises

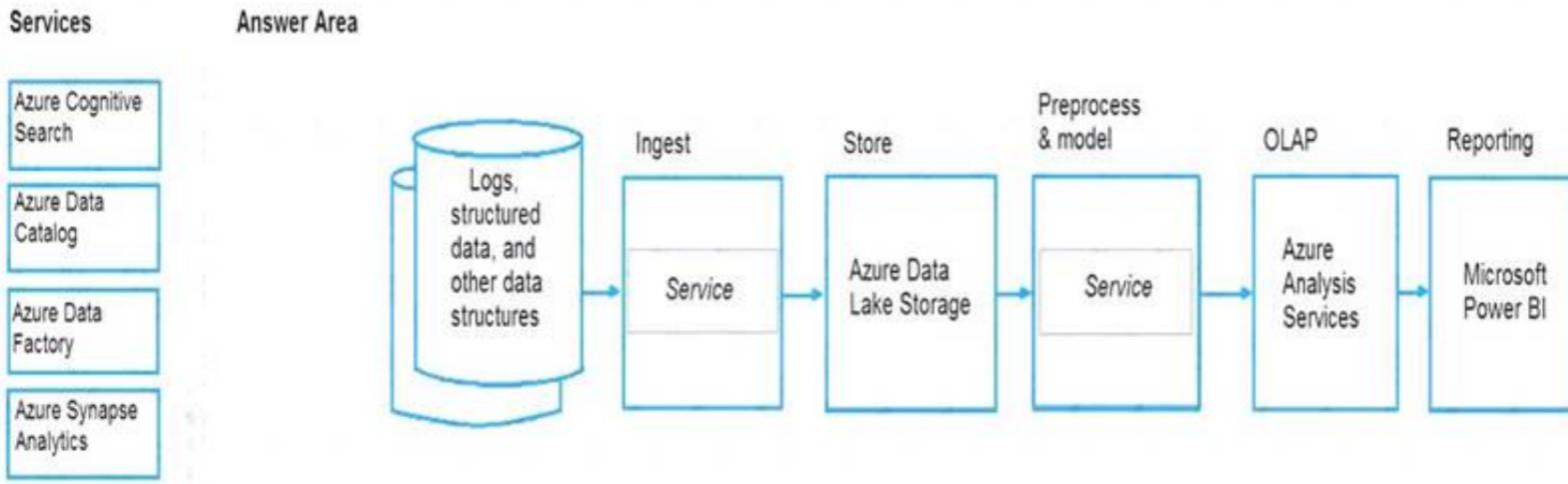
Answer: A

NEW QUESTION 82

Match the Azure services to the appropriate locations in the architecture.

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

NOTE: Each correct match is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box Ingest: Azure Data Factory
 You can build a data ingestion pipeline with Azure Data Factory (ADF). Box Preprocess & model: Azure Synapse Analytics
 Use Azure Synapse Analytics to preprocess data and deploy machine learning models.

NEW QUESTION 84

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

Services	Answer Area
Azure Blob storage	Service Enables the use of SQL queries against data stored in JSON documents
Azure Cosmos DB	Service Enables users to access data by using the Server Message Block (SMB) version 3 protocol
Azure Files	
Azure Table storage	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Azure Cosmos DB
 In Azure Cosmos DB's SQL (Core) API, items are stored as JSON. The type system and expressions are restricted to deal only with JSON types.
 Box 2: Azure Files
 Azure Files offers native cloud file sharing services based on the SMB protocol.

NEW QUESTION 89

Select the answer that correctly completes the sentence.

Answer Area

Online analytical processing (OLAP) systems are particularly suitable for analytical workloads because data is

- optimized for transactions.
- limited in size.
- optimized for transactions.**
- pre-aggregated.
- read-only.

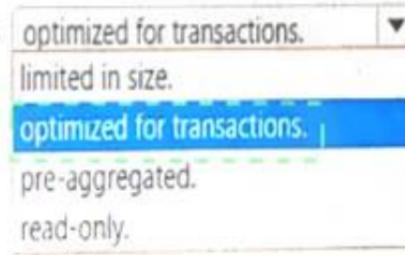
- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Online analytical processing (OLAP) systems are particularly suitable for analytical workloads because data is



NEW QUESTION 90

You have an application that runs on Windows and requires access to a mapped drive. Which Azure service should you use?

- A. Azure Cosmos DB
- B. Azure Table storage
- C. Azure Files
- D. Azure Blob Storage

Answer: A

NEW QUESTION 91

Which three actions are used when performing diagnostic analytics?

- A. • Identify data anomalies• Collect anomaly-related data• Discover relationships and trends that explain anomalies.
- B. • Identify data anomalies• Predict when anomalies are likely to recur• Use analytical tools such as decision trees and regression.
- C. • Apply self-learning loops to draw inferences from anomalies.• Predict when anomalies are likely to recur• Use analytical tools such as decision trees and regression.
- D. • Identify data anomalies• Use machine learning to find patterns in large datasets.• Discover relationships and trends that explain anomalies.

Answer: A

NEW QUESTION 92

What is the primary purpose of a data warehouse?

- A. to provide answers to complex queries that rely on data from multiple sources
- B. to provide transformation services between source and target data stores
- C. to provide read-only storage of relational and non-relational historical data
- D. to provide storage for transactional line-of-business (LOB) applications

Answer: C

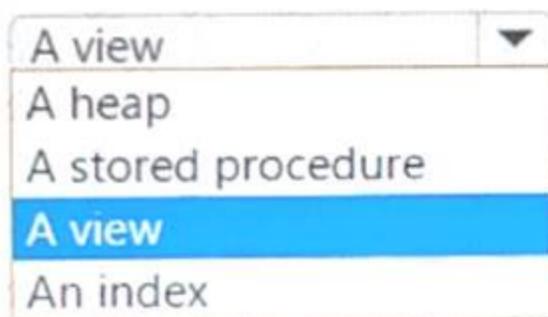
Explanation:

Consider using a data warehouse when you need to keep historical data separate from the source transaction systems for performance reasons. Data warehouses make it easy to access historical data from multiple locations, by providing a centralized location using common formats, keys, and data models. Query both relational and nonrelational data.

NEW QUESTION 94

Select the answer that correctly completes the sentence.

Answer Area



presents content defined by a query.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

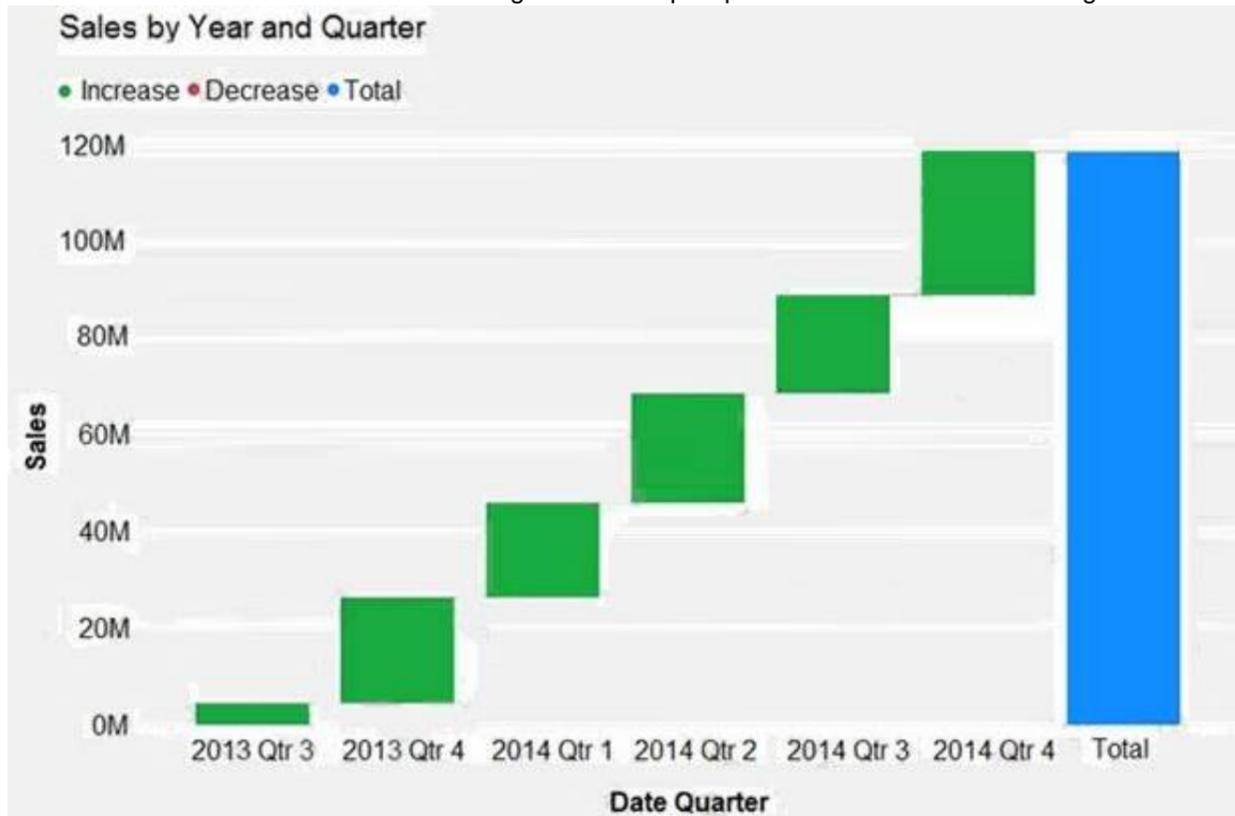
Answer Area

A view
 A heap
 A stored procedure
A view
 An index

presents content defined by a query.

NEW QUESTION 96

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

Answer: A

NEW QUESTION 101

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 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"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated

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.

NEW QUESTION 104

Select the answer that correctly completes the sentence.

Answer Area

In a relational database, each row in a table has

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer as below.

Answer Area

In a relational database, each row in a table has

NEW QUESTION 108

Select the answer that correctly completes the sentence.

Answer Area

A block of code that runs in a database is called

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

A block of code that runs in a database is called

NEW QUESTION 112

Select the answer that correctly completes the sentence.

A is a chart of colored rectangles. The size of the rectangles represent

- | |
|----------------------|
| <input type="text"/> |
| line chart |
| matrix |
| scatter |
| treemap |

the relative value of each item. The chart can be hierarchical, displaying data as a set of rectangles nested within the main rectangle.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, email Description automatically generated

A treemap chart divides the chart area into rectangles that represent the different levels and relative sizes of the data hierarchy.

NEW QUESTION 114

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:

Disadvantages of non-relational databases include: Data Consistency — non-relational databases do not perform ACID transactions.

Note: Relational databases are optimized for writes. They are optimized for consistency and availability. Advantages of relational databases include simplicity, ease of data retrieval, data integrity, and flexibility.

NEW QUESTION 116

A data engineer is responsible for which task?

- A. Design and build analytical models.
- B. Design and implement data stores for analytical workloads.
- C. Explore data to identify trends.
- D. Implement policies, tool
- E. and processes for backup and recovery plans.

Answer: A

NEW QUESTION 118

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