Exam Questions DP-900

Microsoft Azure Data Fundamentals

https://www.2passeasy.com/dumps/DP-900/

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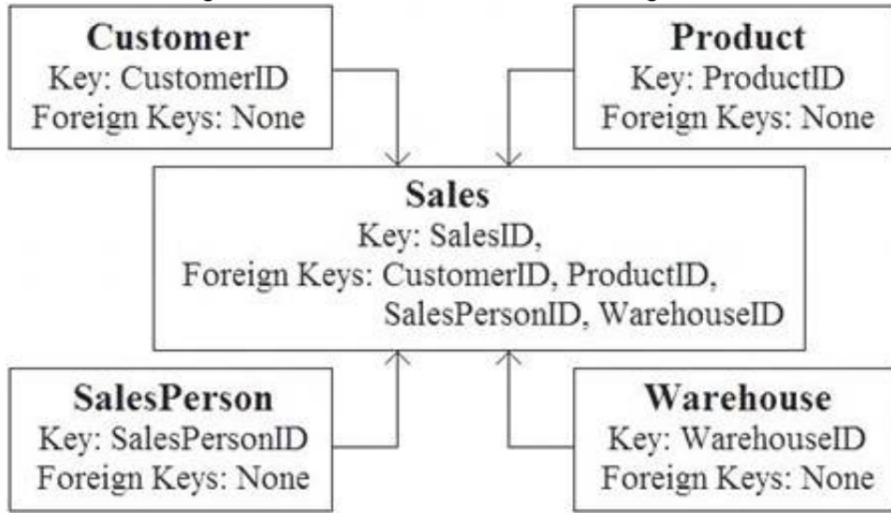
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE: Each correct selection is worth one point

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
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
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. Online Transaction Processing (OLTP)
C. batch processing
D. Online Analytical Processing (OLAP)

Answer: D

NEW QUESTION 4
Which command-line tool can you use to query Azure SQL databases?

A. sqlcmd
B. bcp
C. azdata
D. Azure CLI

Answer: D

NEW QUESTION 5
You need to query a table named Products in an Azure SQL database.
Which three requirements must be met to query the table from the internet? Each correct answer presents part of the solution. (Choose three.)
NOTE: Each correct selection is worth one point.

A. You must be assigned the Reader role for the resource group that contains the database.
B. You must have SELECT access to the Products table.
C. You must have a user in the database.
D. You must be assigned the Contributor role for the resource group that contains the database.
E. Your IP address must be allowed to connect to the database.

Answer: ACE

NEW QUESTION 6
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 7
Your company recently reported sales from the third quarter. You have the chart shown in the following exhibit.
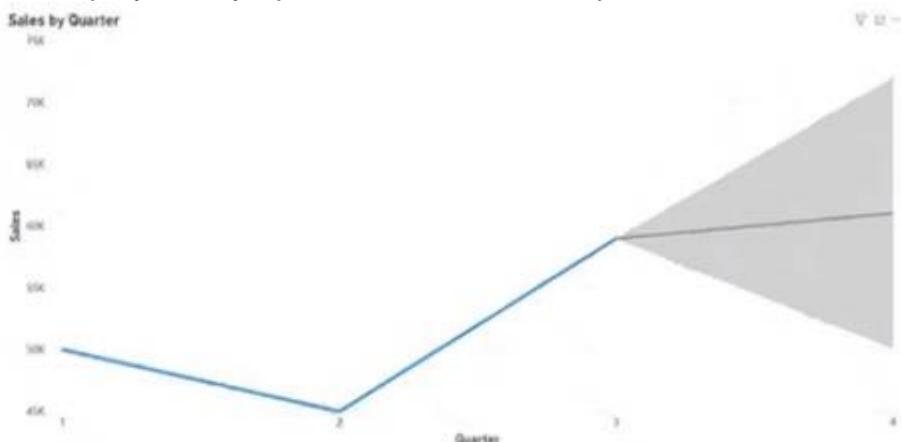
Which type of analysis is shown for the fourth quarter?

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

Answer: B

NEW QUESTION 8

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

Tools	Answer Area	
Azure Data Studio	Tool	A graphical tool for managing Azure SQL databases and viewing SQL execution plans
Microsoft SQL Server Data Tools (SSDT)	Tool	A Microsoft SQL Server extension that supports connections to SQL Server and provides a rich editing experience for T-SQL.
Microsoft SQL Server Management Studio (SSMS)	Tool	A lightweight editor that can run on-demand SQL queries and view and save results as text, JSON, or Microsoft Excel files
Microsoft Visual Studio Code	Tool	A development tool for building Azure SQL databases, Microsoft SQL Server relational databases, SQL Server Analysis Services (SSAS) data models, SQL Server Integration Services (SSIS) packages, and SQL Server Reporting Services (SSRS) reports

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Tools	Answer Area	
Azure Data Studio	Microsoft SQL Server Data Tools (SSDT)	A graphical tool for managing Azure SQL databases and viewing SQL execution plans
Microsoft SQL Server Data Tools (SSDT)	Azure Data Studio	A Microsoft SQL Server extension that supports connections to SQL Server and provides a rich editing experience for T-SQL.
Microsoft SQL Server Management Studio (SSMS)	Microsoft SQL Server Management Studio (SSMS)	A lightweight editor that can run on-demand SQL queries and view and save results as text, JSON, or Microsoft Excel files
Microsoft Visual Studio Code	Microsoft Visual Studio Code	A development tool for building Azure SQL databases, Microsoft SQL Server relational databases, SQL Server Analysis Services (SSAS) data models, SQL Server Integration Services (SSIS) packages, and SQL Server Reporting Services (SSRS) reports

NEW QUESTION 9
To complete the sentence, select the appropriate option in the answer area.

Answer Area

Relational data uses | collections / columns / keys / partitions | to enforce relationships between different tables.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Relational data uses | collections / columns / keys / partitions | to enforce relationships between different tables.

NEW QUESTION 10
To complete the sentence, select the appropriate option in the answer area.

An extract, transform, and load (ETL) process requires ▼

a matching schema in the data source and the data target.
a target data store powerful enough to transform data.
data that is fully processed before being loaded to the target data store.
that the data target be a relational database.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

An extract, transform, and load (ETL) process requires ▼

a matching schema in the data source and the data target.
a target data store powerful enough to transform data.
data that is fully processed before being loaded to the target data store.
that the data target be a relational database.

NEW QUESTION 10
Which two activities can be performed entirely by using the Microsoft Power BI service? Each correct answer presents a complete solution. (Choose two.)
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: AD

NEW QUESTION 14
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
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.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	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.	[○]	○

NEW QUESTION 16
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
Normalization involves eliminating relationships between database tables.	○	○
Normalizing a database reduces data redundancy.	○	○
Normalization improves data integrity.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
Normalization involves eliminating relationships between database tables.	○	☐○
Normalizing a database reduces data redundancy.	☐○	○
Normalization improves data integrity.	☐○	○

NEW QUESTION 17
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 21
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

Answer: AC

NEW QUESTION 25
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

Answer: B

NEW QUESTION 28
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 29
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 30
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 35
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:

Workload Types		Answer Area	
Batch	Streaming		

Batch	Analyzing web traffic from the past year
Batch	Classifying images that were uploaded last month
Streaming	Tracking how many people are currently using a website
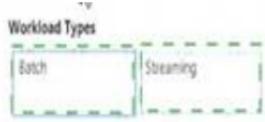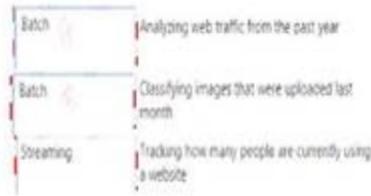
NEW QUESTION 39
You have a transactional application that stem data in an Azure SQ1 managed instance. When should you implement a read-only database replica?

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: C

NEW QUESTION 42
You have an application that runs on Windows and requires across 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 47
To complete the sentence, select the appropriate option in the 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:

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 49
Which statement is an example of Data Manipulation Language (DML).

A. INSERT
B. DISABLE
C. ALTER
D. DROP

Answer: C

NEW QUESTION 52
When can you use an Azure Resource Manager template?

A. to automate the creation of an interdependent group of Azure resources in a repeatable way
B. to automate the creation of an interdependent and develop can deploy from the Azure portal
C. To provision Azure subscriptions and apply policies for multi-tenant deployments

D. To set complex permissions automatically on existing objects in an Azure subscription

Answer: C

NEW QUESTION 54
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 55
You have a SQL pool in Azure Synapse Analytics that is only used actively every night for eight hours. You need to minimize the cost of the SQL pool during idle times. The solution must ensure that the data remains intact.
What should you do on the SQL pool?

A. Scale down the data warehouse units (DWUs).
B. Pause the pool.
C. Create a user-defined restore point.
D. Delete the pool

Answer: B

NEW QUESTION 58
Which Azure Data Factory component provides the compute environment for activities?

A. a linked service
B. an integration runtime
C. a control flow
D. a pipeline

Answer: A

NEW QUESTION 59
Which two Azure services can be used to provision Spark clusters? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

A. Azure Databricks
B. Azure Log Analytics
C. Azure Time Series Insights
D. Azure HDinsight

Answer: AD

NEW QUESTION 64
Which type of non-relational data store supports a flexible schema, stores data as JSON files, and stores the all the data for an entity in the same document?

A. document
B. columnar
C. graph
D. time series

Answer: A

NEW QUESTION 65
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 |
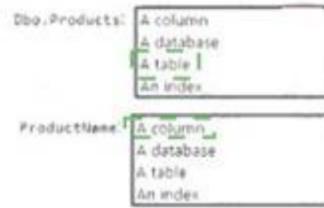
NEW QUESTION 68
Which Azure Data Factory component initiates the execution of a pipeline?

A. a control flow
B. a trigger
C. a parameter
D. an activity

Answer: B

NEW QUESTION 71
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.

Workload Types

| Batch | Micro-batch | Streaming |

Answer Area

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Workload Types

| Batch | Micro-batch | Streaming |

Answer Area

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

NEW QUESTION 73
Match the Azure services to appropriate requirements.
To answer, drag the appropriate services from the column on the left to its requirement 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 Services

| Azure Data Factory | Azure Data Lake Storage | Azure SQL Database |
| Azure Synapse Analytics | | |

Answer Area

| Azure Service | Output data to Parquet format. |
| Azure Service | Store data that is in Parquet format. |
| Azure Service | Persist a tabular representation of data that is stored in Parquet format. |

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 77
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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 82
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 83
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 87
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 92
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 94
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 98
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 99
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.
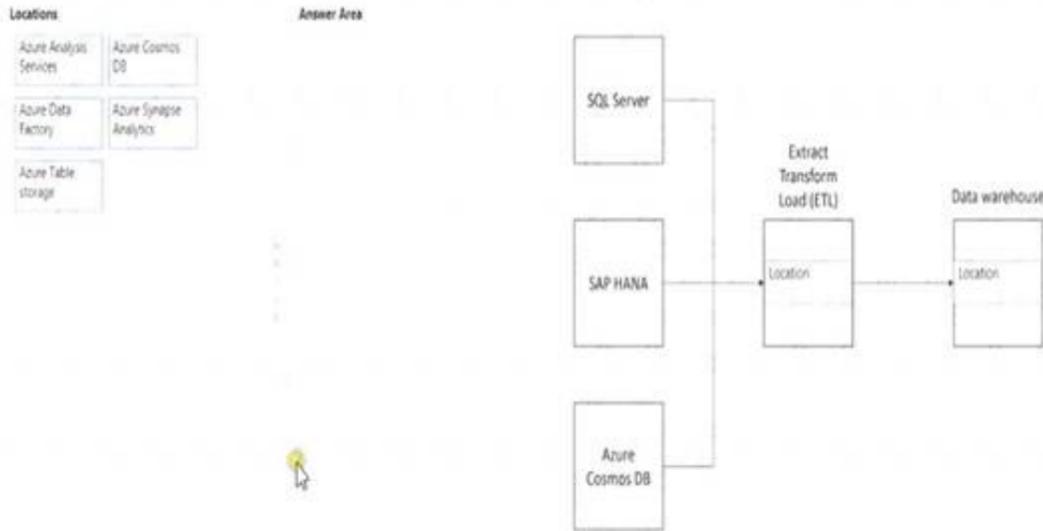
A. Mastered
B. Not Mastered

Answer: A

Explanation:
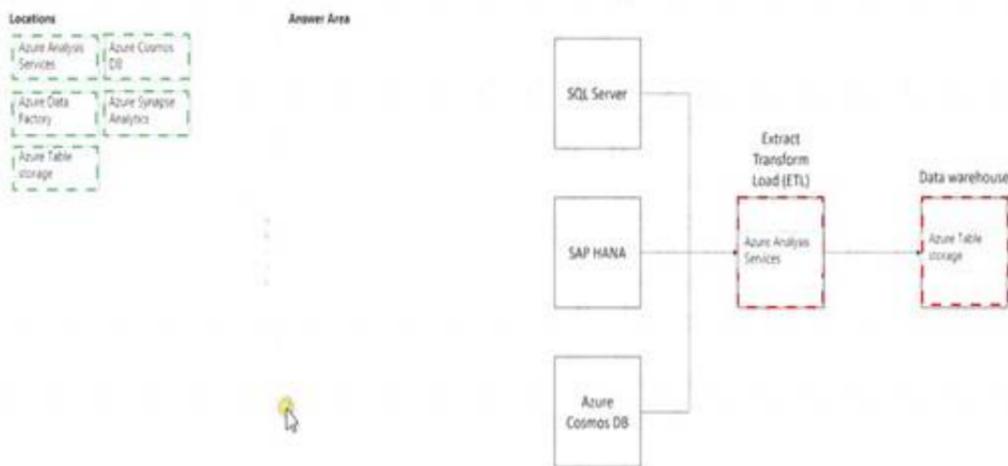
NEW QUESTION 100
You have a SQL query that combines customer data and order data. The query includes calculated columns. You need to persist the SQL query so that other users can use the query. What should you create?

A. a table
B. an index
C. scalar function
D. a view

Answer: B

NEW QUESTION 101
What is a benefit of the Azure Cosmos DB Table API as compared to Azure Table storage?

A. supports partitioning
B. provides resiliency if art Azure region fads
C. provides a higher storage capacity
D. supports a multi-master model

Answer: B

NEW QUESTION 104
Your company if designing an application that will write a high volume of JSON data and will have an application-defined schema.
Which type of data store should you use?

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

Answer: A

NEW QUESTION 105
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 (RSAC)
C. Dynamic Host Configuration Protocol (DHCP)
D. Domain Name Service (DNS)

Answer: D

NEW QUESTION 110
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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 111
To complete the sentence, select the appropriate option in the answer area.

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 114
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 D3
B. Azure Synapse Analytics
C. Azure HCMmtghi
D. Azure SQL Database

Answer: B

NEW QUESTION 115
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 118
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