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Exam : DP-900

**Title : Microsoft Azure Data
Fundamentals**

Vendor : Microsoft

Version : DEMO

NO.1 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: B,D

NO.2 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

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-managecompute-overview>

NO.3 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

Reference:

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

NO.4 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

Answer:

Values

CREATE	GROUP BY	ORDER BY	SELECT
--------	----------	----------	--------

Answer Area

CREATE	SalesDate, AVG(SalesAmount)
FROM Sales	
SELECT	SalesDate

NO.5 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	

Answer:

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	

Reference:

https://www.w3schools.com/js/js_json_arrays.asp

https://www.w3schools.com/js/js_json_objects.asp

NO.6 Which statement is an example of Data Definition Language (DDL)?

- A. SELECT
- B. JOIN
- C. MERGE
- D. CREATE

Answer: D

Reference:

<https://www.geeksforgeeks.org/difference-between-ddl-and-dml-in-dbms/>

NO.7 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

NO.8 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: A,D

NO.9 Which Azure SQL offering supports automatic database scaling and automatic pausing of the database during inactive periods?

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

Answer: D

NO.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 Databricks is an Apache Spark-based collaborative analytics platform.	<input type="radio"/>	<input type="radio"/>
Azure Analysis Services is used for transactional workloads.	<input type="radio"/>	<input type="radio"/>
Azure Data Factory orchestrates data integration workflows.	<input type="radio"/>	<input type="radio"/>

Answer:

Statements	Yes	No
Azure Databricks is an Apache Spark-based collaborative analytics platform.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Analysis Services is used for transactional workloads.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Data Factory orchestrates data integration workflows.	<input checked="" type="radio"/>	<input type="radio"/>