DBCLOUD
EXAMS

QUESTIONS & ANSWERS

verified



Technology Provider: Microsoft
Exam: Microsoft Azure Data Fundamentals
Number of questions in the database: 323
Exam Version: NOV.2026

Topic 1 - Single Topic

Question #1*Topic 1*

HOTSPOT -
To complete the sentence, select the appropriate option in the answer area.
Hot Area:

Answer Area

Descriptive analytics tells you [▼]
- what is most likely to occur in the future.
- what occurred in the past.
- which actions you can perform to affect outcomes.
- why something occurred in the past.

Correct Answer:

Answer Area

Descriptive analytics tells you [▼]
- what is most likely to occur in the future.
- what occurred in the past. ✓
- which actions you can perform to affect outcomes.
- why something occurred in the past.

Reference:
https://demand-planning.com/2020/01/20/the-differences-between-descriptive-diagnostic-predictive-cognitive-analytics/

Question #2*Topic 1*

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.

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Hot Area:

Answer Area

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

Correct Answer:

Answer Area

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

Reference:
https://www.sqlshack.com/what-is-database-normalization-in-sql-server/

Question #3*Topic 1*

HOTSPOT -
To complete the sentence, select the appropriate option in the answer area.
Hot Area:

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.

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Correct
Answer:

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.

Extract, transform, and load (ETL) is a data pipeline used to collect data from various sources, transform the data according to business rules, and load it into a destination data store.
Reference:
https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/etl

Question #4*Topic 1*

HOTSPOT -
To complete the sentence, select the appropriate option in the answer area.
Hot Area:

Answer Area

In batch processing,

- data is always inserted one row at a time.
- data is processed in real-time.
- latency in delivering data processing results is acceptable.
- processing can only execute serially.

Correct
Answer:

Answer Area

In batch processing,

- data is always inserted one row at a time.
- data is processed in real-time.
- **latency in delivering data processing results is acceptable.**
- processing can only execute serially.

When to use batch processing.

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You might expect latencies when using batch processing. For many situations, however, this type of delay before the transfer of data begins is not a big issue - the processes that use this function are not mission critical at the exact moment.
Reference:
https://www.bmc.com/blogs/what-is-batch-processing-batch-processing-explained/

Question #5*Topic 1*

HOTSPOT -
To complete the sentence, select the appropriate option in the answer area.
Hot Area:

Answer Area

Transcribing audio files is an example of [▼] analytics.

- cognitive
- descriptive
- predictive
- prescriptive

Correct Answer:

Answer Area

Transcribing audio files is an example of [cognitive ▼] analytics.

- cognitive
- descriptive
- predictive
- prescriptive

Reference:
https://azure.microsoft.com/en-us/services/cognitive-services/speech-services/

Question #6*Topic 1*

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.

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Select and Place:

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

Correct Answer: *Incorrect Answer:*
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.
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: Descriptive -
- Generally speaking, data analytics comes in four types:
- Descriptive, to answer the question: What's happening?
- Diagnostic, to answer the question: Why's happening?
- Predictive, to answer the question: What will happen?
- Prescriptive, to answer the question: What actions should we take?



Reference:
https://demand-planning.com/2020/01/20/the-differences-between-descriptive-diagnostic-

https://dbcloud.academy/

predictive-cognitive-analytics/ https://azure.microsoft.com/en-us/blog/answering-whats-happening-whys-happening-and-what-will-happen-with-iot-analytics/

Question #7*Topic 1*

HOTSPOT -
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.

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Hot Area:

Answer Area

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

Correct

Answer Area

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:

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