

Exam DP-900: Microsoft Azure Data Fundamentals

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2020-10-29

Question1: To complete the sentence, select the appropriate option in the 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: 2

Question2: 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.	<input type="radio"/>	<input checked="" type="radio"/>
Normalizing a database reduces data redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
Normalization improves data integrity.	<input checked="" type="radio"/>	<input type="radio"/>

Correct Answer: 2,3

Question3: 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.	

Correct Answer: 4

Question4: To complete the sentence, select the appropriate option in the answer area.

In batch processing,

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

Correct Answer: 3

Question5: 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

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

Correct Answer: **Diagnostic, Predictive, Cognitive**

Question6: To complete the sentence, select the appropriate option in the answer area.

	▼
A clustered index	
A FileTable	
A foreign key	
A stored procedure	

is an object associated with a table that sorts and stores the data rows in the table based on their key values.

Correct Answer: 1

Question7: Your company needs to implement a relational database in Azure. The solution must minimize ongoing maintenance. Which Azure service should you use?

1. Azure HDInsight
2. Azure SQL Database
3. Azure Cosmos DB
4. SQL Server on Azure virtual machines

Correct Answer: **2**

Question8: Which command-line tool can you use to query Azure SQL databases?

1. sqlcmd
2. bcp
3. azdata
4. Azure CLI

Correct Answer: 4

Question9: Which statement is an example of Data Definition Language (DDL)?

1. SELECT
2. JOIN
3. MERGE
4. CREATE

Correct Answer: 4

Question10: 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?

1. service principal authentication
2. Azure Active Directory (Azure AD) authentication
3. SQL authentication
4. certificate authentication

Correct Answer: **2**

Question11: What is a benefit of hosting a database on Azure SQL managed instance as compared to an Azure SQL database?

1. built-in high availability
2. native support for cross-database queries and transactions
3. system-initiated automatic backups
4. support for encryption at rest

Correct Answer: **2**

Question12: You need to design and model a database by using a graphical tool that supports project-oriented offline database development. What should you use?

1. Microsoft SQL Server Data Tools (SSDT)
2. Microsoft SQL Server Management Studio (SSMS)
3. Azure Databricks
4. Azure Data Studio

Correct Answer: **1**

Question:13 At which two levels can you set the throughput for an Azure Cosmos DB account? (Each correct answer presents a complete solution. Choose two.)

1. database
2. item
3. container
4. partition

Correct Answer: 1,3

Question14: 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.)

1. the throughput
2. the read region
3. the partition key
4. the API

Correct Answer: 1,3

Question15: You manage an application that stores data in a shared folder on a Windows server. You need to move the shared folder to Azure Storage. Which type of Azure Storage should you use?

1. queue
2. blob
3. file
4. table

Correct Answer: 2

Question16: 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?

1. key/value
2. graph
3. columnar
4. document

Correct Answer: 3

Question17: To complete the sentence, select the appropriate option in the answer area.

Transcribing audio files is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

 analytics.

Correct Answer: 1

Question18: 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"
      }
    ]
  }
}
```

Customer is [answer choice].

	▼
a nested array	
a nested object	
a root object	

Address is [answer choice].

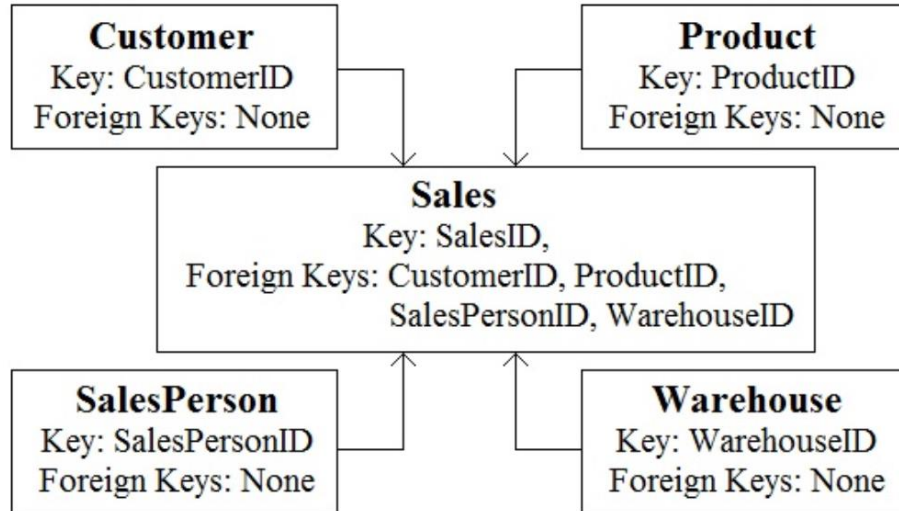
	▼
a nested array	
a nested object	
a root object	

Social media is [answer choice].

	▼
a nested array	
a nested object	
a root object	

Correct Answer: 3,2,1

Question19: You are reviewing the data model shown in the following exhibit.



The data model is a [answer choice].

	▼
transactional model	
star schema	
snowflake schema	

Customer is a [answer choice] table.

	▼
fact	
dimension	
bridge	

Correct Answer: 3,2

Question20: 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.	

Correct Answer: 1