

# Microsoft

*DP-900  
Microsoft Azure Data Fundamentals*



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## Product Version

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- ✓ Questions and Answers in PDF Format.

# Total Questions: 122

## Latest Version

### Question: 1

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.

**Answer:**

Answer Area

A relational database is appropriate for scenarios that involve a high volume of

writes that have varying data structures.

### Question: 2

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

Answer Area

An extract, load, and transform (ELT) process requires

a data pipeline that includes a transformation engine.  
a separate transformation engine.  
a target data store powerful enough to transform data.  
data that is fully processed before being loaded to the target data store.

**Answer:**

Answer Area

An extract, load, and transform (ELT) process requires

data that is fully processed before being loaded to the target data store.

### Question: 3

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**

### Question: 4

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

Answer Area

A visualization that shows a university's current student enrollment versus the maximum capacity is an example of

cognitive  
descriptive  
predictive  
prescriptive

analytics.

Answer:

Answer Area

A visualization that shows a university's current student enrollment versus the maximum capacity is an example of

predictive

analytics.

## Question: 5

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

Answer:

Locations

An in-memory data integration tool

The CRM system

The data warehouse

Answer Area

Extract: The data warehouse

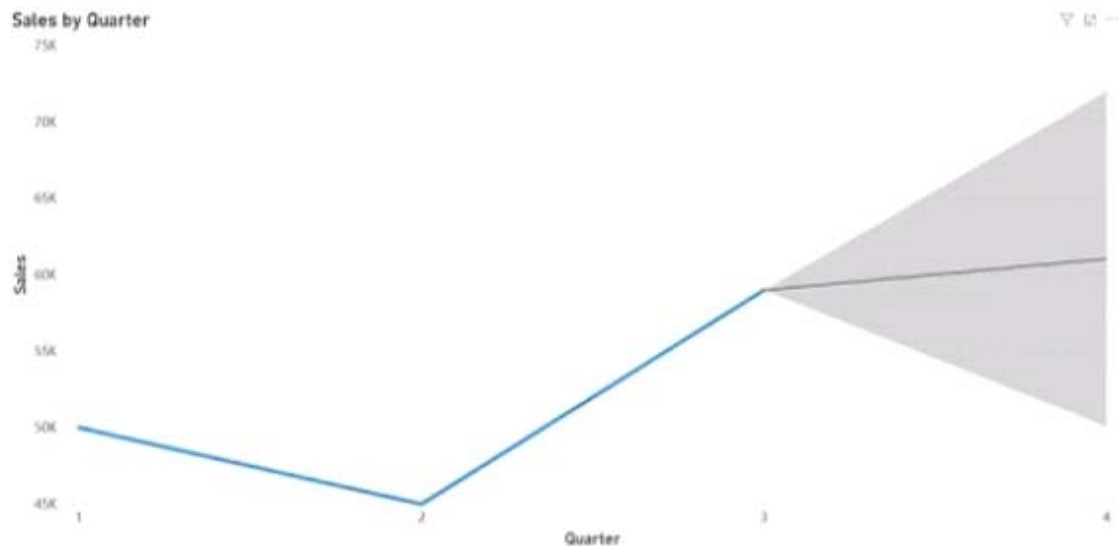
Load: An in-memory data integration tool

Transform: The CRM system

## Question: 6

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**

### Question: 7

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.

**Answer:**

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.

### Question: 8

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
Batch processing can output data to a file store.	<input type="radio"/>	<input type="radio"/>
Batch processing can output data to a relational database.	<input type="radio"/>	<input type="radio"/>
Batch processing can output data to a NoSQL database.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

Statements	Yes	No
Batch processing can output data to a file store.	<input checked="" type="radio"/>	<input type="radio"/>
Batch processing can output data to a relational database.	<input checked="" type="radio"/>	<input type="radio"/>
Batch processing can output data to a NoSQL database.	<input type="radio"/>	<input checked="" type="radio"/>

## Question: 9

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.

Analytics Types

Cognitive	Descriptive	Diagnostic	Predictive	Prescriptive
-----------	-------------	------------	------------	--------------

Answer Area

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

Answer:

Diagnostic

Why did sales increase last month?

Predictive

How do I allocate my budget to buy different inventory items?

Cognitive

Which people are mentioned in a company's business documents?

Reference:

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

## Question: 10

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

Answer Area

Relational data is stored in

a file system as unstructured data.  
a hierarchal folder structure.  
a tabular form of rows and columns.  
comma-separated value (CSV) files.

**Answer:**

Answer Area

Relational data is stored in  ▼

## Question: 11

What are two uses of data visualization? Each correct answer present a complete solution.

NOTE: Each correct selection is worth one point.

- A. Represent trends and patterns over time.
- B. Communicate the significance of data.
- C. implement machine learning to predict future values.
- D. Consistently implement business logic across reports

**Answer: A, C**

## Question: 12

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

**Answer:**

Workload Types

Batch	Streaming
-------	-----------

Answer Area

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

## Question: 13

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

Answer Area

A Microsoft Power BI  enables users to create highly formatted, fixed-layout documents or  archiving.

**Answer:**

Paginated Reports

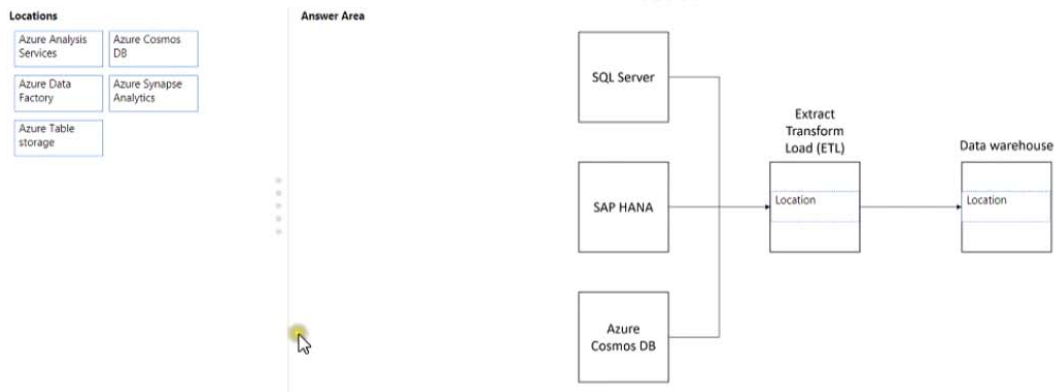
<https://powerbi.microsoft.com/en-us/blog/announcing-paginated-reports-in-power-bi-general-availability/>

### Question: 14

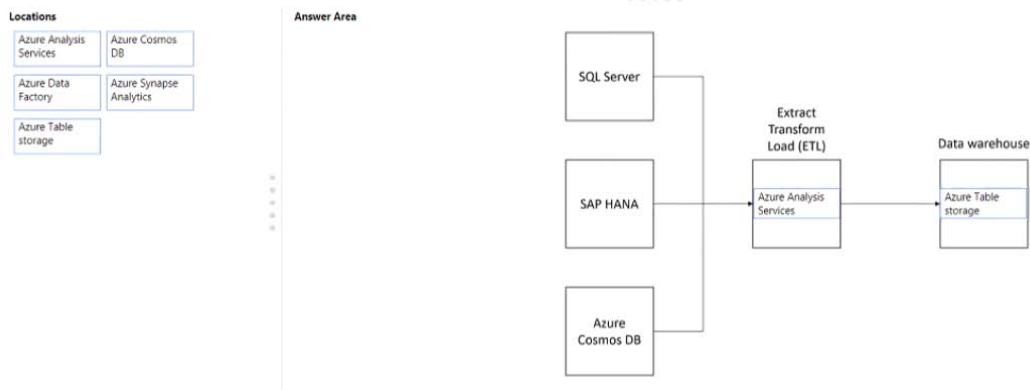
Match the Azure services to the appropriate locations in the architecture.

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.



**Answer:**



### Question: 15

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**

### Question: 16

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**

### Question: 17

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: A, D**

Reference:

<https://www.sqlshack.com/a-beginners-guide-to-azure-databricks/>

### Question: 18

You need to develop a solution to provide data to executives. the solution must provide an interactive graphic interface, depict various key performance indications, and support data exploration by using drill down.

What should you use in Microsoft Power BI?

- A. a dashboard
- B. Microsoft Power Apps
- C. a dataflow
- D. a report

**Answer: D**



Reference:

<https://docs.microsoft.com/en-us/power-bi/consumer/end-user-dashboards>

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-kpi>

<https://docs.microsoft.com/en-us/power-bi/consumer/end-user-drill>

## Question: 19

What should you use to build a Microsoft Power BI paginated report?

- A. Power BI report Builder
- B. Power BI Desktop
- C. Charticulator
- D. the Power BI service

**Answer: B**

## Question: 20

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
A pipeline is a representation of a data structure within Azure Data Factory.	<input type="radio"/>	<input type="radio"/>
Azure Data Factory pipelines can execute other pipelines.	<input type="radio"/>	<input type="radio"/>
A processing step within an Azure Data Factory pipeline is an activity.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Answer Area

Statements	Yes	No
A pipeline is a representation of a data structure within Azure Data Factory.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Data Factory pipelines can execute other pipelines.	<input checked="" type="radio"/>	<input type="radio"/>
A processing step within an Azure Data Factory pipeline is an activity.	<input type="radio"/>	<input checked="" type="radio"/>

## Question: 21

match the Azure data factory components to the appropriate descriptions.

To answer, drag the appropriate component from the column on the left to its description 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

Dataset	Linked service	Mapping data flow	Pipeline
---------	----------------	-------------------	----------

Answer Area

Component	A representation of data structures within data stores
Component	The information used to connect to external resources
Component	A logical grouping of activities that performs a unit of work and can be scheduled

#### Components

Dataset	Linked service	Mapping data flow	Pipeline
---------	----------------	-------------------	----------

**Answer:**

#### Answer Area

Dataset	A representation of data structures within data stores
Linked service	The information used to connect to external resources
Mapping data flow	A logical grouping of activities that performs a unit of work and can be scheduled

## Question: 22

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**

Reference:

<https://datawarehouseinfo.com/how-does-oltp-differ-from-olap-database/>

## Question: 23

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.

**Answer:**

#### Azure Services

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

#### Answer Area

Azure Data Factory	Output data to Parquet format.
Azure Data Lake Storage	Store data that is in Parquet format.
Azure Synapse Analytics	Persist a tabular representation of data that is stored in Parquet format.

## Question: 24

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

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.

**Answer:**

Answer Area

The massively parallel processing (MPP) engine  
of Azure Synapse Analytics

redirects client connections across compute nodes.

## Question: 25

Which Azure storage solution provides native support for POSIX-compliant access control lists (ACLs)?

- A. Azure Queue storage
- B. Azure Data Lake Storage
- C. Azure table storage
- D. Azure Files

**Answer: C**

## Question: 26

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: C**

Reference:

<https://docs.microsoft.com/en-us/sql/database-engine/availability-groups/windows/active-secondaries-readable-secondary-replicas-always-on-availability-groups?view=sql-server-ver15>

## Question: 27

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
Azure Synapse Analytics scales storage and compute independently.	<input type="radio"/>	<input type="radio"/>
Azure Synapse Analytics can be paused to reduce compute costs.	<input type="radio"/>	<input type="radio"/>
An Azure Synapse Analytics data warehouse has a fixed storage capacity.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Answer Area

• • • • •

Statements	Yes	No
Azure Synapse Analytics scales storage and compute independently.	<input checked="" type="radio"/>	<input type="radio"/>
Azure Synapse Analytics can be paused to reduce compute costs.	<input checked="" type="radio"/>	<input type="radio"/>
An Azure Synapse Analytics data warehouse has a fixed storage capacity.	<input type="radio"/>	<input checked="" type="radio"/>

## 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.

Answer Area

Statements	Yes	No
Azure Databricks can consume data from Azure SQL Database.	<input type="radio"/>	<input type="radio"/>
Azure Databricks can consume data from Azure Event Hubs.	<input type="radio"/>	<input type="radio"/>
Azure Databricks can consume data from Azure Cosmos DB.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Answer Area

Statements	Yes	No
Azure Databricks can consume data from Azure SQL Database.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Databricks can consume data from Azure Event Hubs.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Databricks can consume data from Azure Cosmos DB.	<input checked="" type="radio"/>	<input type="radio"/>

## Question: 29

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

Answer Area

A key/value data store is optimized for

enforcing constraints.  
simple lookups.  
table joins.  
transactions.

**Answer:**

• • • • •

Answer Area

A key/value data store is optimized for table joins.

### Question: 30

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**

### Question: 31

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

Answer Area

You can query a graph database in Azure Cosmos DB

as a JSON document by using a SQL-like language.  
as a partitioned row store by using Cassandra Query Language (CQL).  
as a partitioned row store by using Language-Integrated Query (LINQ).  
as nodes and edges by using the Gremlin language.

**Answer:**

Answer Area

You can query a graph database in Azure Cosmos DB

as a JSON document by using a SQL-like language.

### Question: 32

Your company needs to design a database that shows how changes in 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**

### Question: 33

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**

### Question: 34

You need to create an Azure Storage account.

Data in the account must replica outside the Azure region automatically.

Which two types of replica can you us for the storage account? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one pint.

- A. read-access geo-redundant storage (RA\_GRS)
- B. zone-redundant storage (ZRS)
- C. geo-redundant storage (GRS)
- D. locally-redundant storage (LRS)

**Answer: A, C**

### Question: 35

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
The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account.	<input type="radio"/>	<input type="radio"/>
Partition keys are used in Azure Cosmos DB to optimize queries.	<input type="radio"/>	<input type="radio"/>
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Answer Area

Statements	Yes	No
The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account.	<input checked="" type="radio"/>	<input type="radio"/>
Partition keys are used in Azure Cosmos DB to optimize queries.	<input type="radio"/>	<input checked="" type="radio"/>
Items contained in the same Azure Cosmos DB logical partition can have different partition keys.	<input type="radio"/>	<input checked="" type="radio"/>

### Question: 36

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**

### Question: 37

When provisioning an Azure Cosmos DB account, which feature provides redundancy within an Azure region?

- A. multi-master replication
- B. Availability Zones
- C. automatic failover
- D. the strong consistency level

**Answer: B**

### Question: 38

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**

### Question: 39

Your company is 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**

### Question: 40

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

NOTE: Each correct selection is worth one point.

- A. container
- B. item
- C. database
- D. partition

**Answer: AC**

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/set-throughput>

### Question: 41

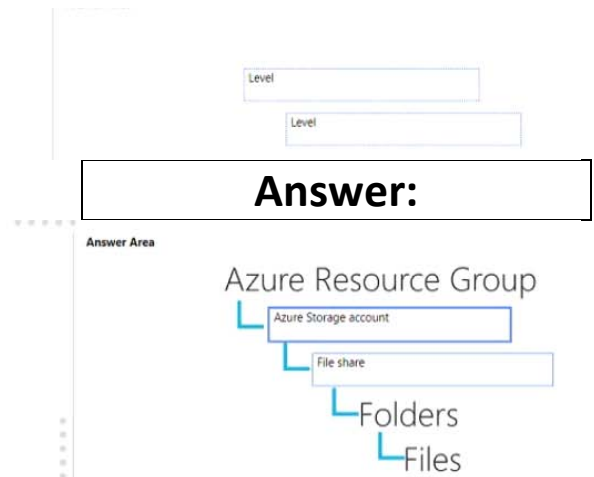
Match the Azure Data Lake Storage terms to the appropriate levels in the hierarchy.

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

NOTE: Each correct match is worth one point.

Azure Storage account	File share
File system	

Terms	
Azure Storage account	File share
File system	



### Question: 42

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

Answer Area

To configure an Azure Storage account to support both security at the folder level and atomic directory manipulation,

enable the hierarchical namespace.  
set Account kind to BlobStorage.  
set Performance to Premium.  
set Replication to Read-access geo-redundant storage (RA-GRS).



Answer Area

**Answer:**

To configure an Azure Storage account to support both security at the folder level and atomic directory manipulation, set Account kind to BlobStorage.

### Question: 43

Your company is designing a data store for internet-connected temperature sensors. The collected data will be used to analyze temperature trends. Which type of data store should you use?

- A. relational
- B. columnar
- C. graph
- D. time series

**Answer: A**

### Question: 44

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

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

**Answer: B**

### Question: 45

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-production account type
- D. API

**Answer: C**

### Question: 46

Match the types of data to the appropriate Azure data services.

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

NOTE: Each correct match is worth one point.

**Data Types**

Image files

Key/value pairs

Relationships between employees

**Answer Area**

Data Type

Data Type

Data Type

**Data Types**

Image files

Key/value pairs

Relationships between employees

**Answer Area**

Image files

Key/value pairs

Relationships between employees

**Answer:**

## Question: 47

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**

Azure Data Studio

Microsoft SQL Server Data Tools (SSDT)

Microsoft SQL Server Management Studio (SSMS)

Microsoft Visual Studio Code

**Answer Area**

Tool

Tool

Tool

Tool

**Tools**

Azure Data Studio

Microsoft SQL Server Data Tools (SSDT)

Microsoft SQL Server Management Studio (SSMS)

Microsoft Visual Studio Code

**Answer Area**

Microsoft SQL Server Data Tools (SSDT)

Azure Data Studio

Microsoft SQL Server Management Studio (SSMS)

Microsoft Visual Studio Code

**Answer:**

## Question: 48

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

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

**Answer: C**

## Question: 49

You have a SQL query that combines customer data and order data.

a. 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**

## Question: 50

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.

**Answer:**

Relational data uses 

▼

collections

columns

keys

partitions

 to enforce relationships between different tables.

Reference:

<https://teachcomputerscience.com/relational-databases/>

## Question: 51

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
Platform as a service (PaaS) database offerings in Azure require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.	<input type="radio"/>	<input type="radio"/>
Platform as a service (PaaS) database offerings in Azure provide administrators with the ability to control and update the operating system version.	<input type="radio"/>	<input type="radio"/>
All platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Answer Area

• • • • •

Statements

	Yes	No
Platform as a service (PaaS) database offerings in Azure require less setup and configuration effort than infrastructure as a service (IaaS) database offerings.	<input checked="" type="radio"/>	<input type="radio"/>
Platform as a service (PaaS) database offerings in Azure provide administrators with the ability to control and update the operating system version.	<input type="radio"/>	<input checked="" type="radio"/>
All platform as a service (PaaS) database offerings in Azure can be paused to reduce costs.	<input checked="" type="radio"/>	<input type="radio"/>

## Question: 52

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 serveless
- D. Azure SQL Database elastic pod

**Answer: B**

## Question: 53

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:	<input type="checkbox"/> A column <input type="checkbox"/> A database <input type="checkbox"/> A table <input type="checkbox"/> An index
ProductName:	<input type="checkbox"/> A column <input type="checkbox"/> A database <input type="checkbox"/> A table <input type="checkbox"/> An index

**Answer:**

Dbo.Products :

▼
A column
A database
A table
An index

ProductName :

▼
A column
A database
A table
An index

### Question: 54

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
Relational database tables contain columns and rows.	<input type="radio"/>	<input type="radio"/>
Indexes in a relational database describe the data types in a table.	<input type="radio"/>	<input type="radio"/>
A database view is a virtual table whose content is defined by a query.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Answer Area

Statements	Yes	No
Relational database tables contain columns and rows.	<input checked="" type="radio"/>	<input type="radio"/>
Indexes in a relational database describe the data types in a table.	<input checked="" type="radio"/>	<input type="radio"/>
A database view is a virtual table whose content is defined by a query.	<input type="radio"/>	<input checked="" type="radio"/>

### Question: 55

What are two benefits of platform as a service (PaaS) relational database offerings in Azure, such as Azure SQL Database? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. complete control over backup and restore processes
- B. access to the latest features
- C. in-database machine learning services
- D. reduced administrative effort for managing the server infrastructure

**Answer: B, C**

### Question: 56

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: B**

### Question: 57

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**

### Question: 58

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"/>

**Answer:**

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

## Question: 59

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**

## Question: 60

When you create an Azure SQL database, which account can always connect to the database ?

- A. the Azure Active director/ (Azure AD) account that created the database
- B. the Azure Active Directory (AD) administrator account
- C. the sa account
- D. the server admin login account of the logical server

**Answer: B**

## Question: 61

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

- |                                                                                              |                       |                       |
|----------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.  | <input type="radio"/> | <input type="radio"/> |
| Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks. | <input type="radio"/> | <input type="radio"/> |
| Azure Data Studio can be used to restore a database.                                         | <input type="radio"/> | <input type="radio"/> |

**Answer:**

Answer Area

Statements	Yes	No
Azure Data Studio can be used to query an Azure SQL database from a device that runs macOS.	<input type="radio"/>	<input checked="" type="radio"/>
Microsoft SQL Server Management Studio (SSMS) enables users to create and use SQL notebooks.	<input type="radio"/>	<input checked="" type="radio"/>
Azure Data Studio can be used to restore a database.	<input checked="" type="radio"/>	<input type="radio"/>

## Question: 62

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

- A. native support for cross-database queries and transactions
- B. built-in high availability
- C. system-Initiated automatic backups
- D. support for encryption at rest

**Answer: A**

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/features-comparison>

## Question: 63

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

## Question: 64

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

Azure SQL managed instance supports cross-database queries.

☐

☐

Azure SQL managed instance supports user-created backups.

☐

☐

Azure SQL managed instance databases can be restored to SQL Server on an Azure virtual machine.

☐

☐

Answer:

Answer Area

Statements

Yes

No

Azure SQL managed instance supports cross-database queries.

☒

☐

Azure SQL managed instance supports user-created backups.

☐

☒

Azure SQL managed instance databases can be restored to SQL Server on an Azure virtual machine.

☒

☐

## Question: 65

A team of developers has computers that run Windows 10 and Ubuntu Desktop.

The developers need to connect to and query an Azure SQL database from the computers. The developers require code assistance features such as IntelliSense.

What should the developers use?

- A. Azure Data Studio
- B. sqlcmd
- C. Microsoft SQL Server Management Studio (SSMS)
- D. Azure Data Explorer

Answer: B

## Question: 66

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

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.

**Answer:**

Answer Area

Transparent Data Encryption (TDE) encrypts

the database to protect data at rest.

### Question: 67

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.

**Answer:**

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: 68

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

**Answer:**

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"/>

Reference:

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

### Question: 69

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.

**Answer:**

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.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/etl>

### Question: 70

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.	

**Answer:**

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.	

Reference:

<https://www.bmc.com/blogs/what-is-batch-processing-batch-processing-explained/>

### Question: 71

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

Transcribing audio files is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

analytics.

**Answer:**

Transcribing audio files is an example of

	▼
cognitive	
descriptive	
predictive	
prescriptive	

analytics.

Reference:

## Question: 72

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	

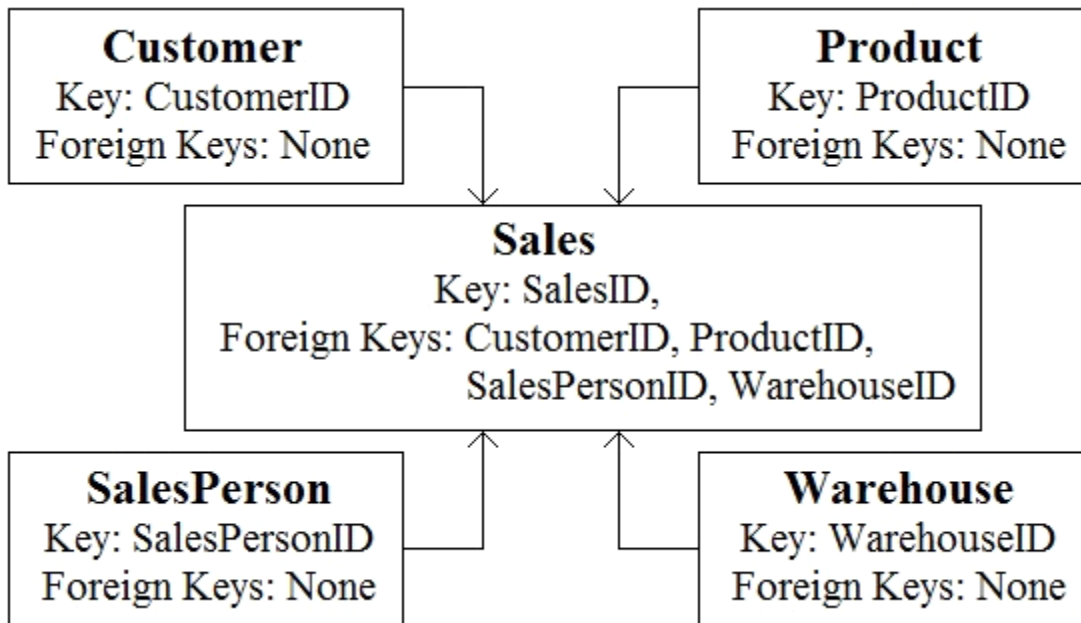
Reference:

[https://www.w3schools.com/js/js\\_json\\_arrays.asp](https://www.w3schools.com/js/js_json_arrays.asp)

[https://www.w3schools.com/js/js\\_json\\_objects.asp](https://www.w3schools.com/js/js_json_objects.asp)

### Question: 73

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



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

**Answer:**

The data model is a [answer choice].

▼

transactional model

star schema

snowflake schema

Customer is a [answer choice] table.

▼

fact

dimension

bridge



Reference:

[https://en.wikipedia.org/wiki/Snowflake\\_schema](https://en.wikipedia.org/wiki/Snowflake_schema)

<https://azure.microsoft.com/en-us/blog/data-models-within-azure-analysis-services-and-power-bi/>

### Question: 74

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.

**Answer:**

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.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

### Question: 75

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.

**Answer:**



	▼
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.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/indexes/clustered-and-nonclustered-indexes-described?view=sql-server-ver15>

### Question: 76

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

A relational database must be used when

	▼
a dynamic schema is required.	
data will be stored as key/value pairs.	
storing large images and videos.	
strong consistency guarantees are required.	

**Answer:**

A relational database must be used when

	▼
a dynamic schema is required.	
data will be stored as key/value pairs.	
storing large images and videos.	
strong consistency guarantees are required.	

### Question: 77

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

	▼
A heap	
A stored procedure	
A view	
An index	

is a virtual table that contains content defined by a query.

**Answer:**

▼
A heap
A stored procedure
A view
An index

is a virtual table that contains content defined by a query.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/views/views>

### Question: 78

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**

### Question: 79

You have an inventory management database that contains the following table.

ProductName	Quantity
Product1	100
Product2	129
Product3	176

Which statement should you use in a SQL query to change the inventory quantity of Product1 to 270?

- A. INSERT
- B. MERGE
- C. UPDATE
- D. CREATE

**Answer: C**

Reference:

---

<https://docs.microsoft.com/en-us/sql/t-sql/queries/update-transact-sql?view=sql-server-ver15>

### Question: 80

Your company needs to implement a relational database in Azure. The solution must minimize ongoing maintenance.

Which Azure service should you use?

- A. Azure HDInsight
- B. Azure SQL Database
- C. Azure Cosmos DB
- D. SQL Server on Azure virtual machines

**Answer: B**

Reference:

<https://azure.microsoft.com/en-us/services/sql-database/#features>

### Question: 81

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**

Reference:

<https://www.mssqltips.com/sqlservertip/5997/create-sql-server-notebooks-in-azure-data-studio/>

### Question: 82

Match the terms to the appropriate descriptions.

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

NOTE: Each correct match is worth one point.

**Terms**

Index
View
Table

**Answer Area**

	A database object that holds data
	A database object whose content is defined by a query
	A database object that helps improve the speed of data retrieval

**Answer:**

Table	A database object that holds data
View	A database object whose content is defined by a query
Index	A database object that helps improve the speed of data retrieval

Reference:

[https://en.wikipedia.org/wiki/Table\\_\(database\)#:~:text=A%20table%20is%20a%20collection,table%20format%20within%20a%20database.&text=In%20relational%20databases%2C%20and%20flat,a%20row%20and%20column%20intersect.](https://en.wikipedia.org/wiki/Table_(database)#:~:text=A%20table%20is%20a%20collection,table%20format%20within%20a%20database.&text=In%20relational%20databases%2C%20and%20flat,a%20row%20and%20column%20intersect.)

[https://en.wikipedia.org/wiki/View\\_\(SQL\)](https://en.wikipedia.org/wiki/View_(SQL))

[https://en.wikipedia.org/wiki/Database\\_index#:~:text=A%20database%20index%20is%20a,maintain%20the%20index%20data%20structure.](https://en.wikipedia.org/wiki/Database_index#:~:text=A%20database%20index%20is%20a,maintain%20the%20index%20data%20structure.)

**Question: 83**

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

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

**Answer: D**

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/az-cli-script-samples-content-guide?tabs=singledatabase>

**Question: 84**

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"/>

**Answer:**

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"/>

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/sql-database-paas-overview>

<https://azure.microsoft.com/en-us/blog/announcing-sql-atp-and-sql-vulnerability-assessment-general-availability/>

### Question: 85

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
You can use Azure Data Studio to query a Microsoft SQL Server big data cluster.	<input type="radio"/>	<input type="radio"/>
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	<input type="radio"/>	<input type="radio"/>
You can use MySQL Workbench to query Azure Database for MariaDB databases.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
You can use Azure Data Studio to query a Microsoft SQL Server big data cluster.	<input checked="" type="radio"/>	<input type="radio"/>
You can use Microsoft SQL Server Management Studio (SSMS) to query an Azure Synapse Analytics data warehouse.	<input type="radio"/>	<input type="radio"/>
You can use MySQL Workbench to query Azure Database for MariaDB databases.	<input type="radio"/>	<input type="radio"/>

Reference:  
<https://docs.microsoft.com/en-us/sql/big-data-cluster/connect-to-big-data-cluster?view=sql-server-ver15>  
<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-query-ssms>  
<https://docs.microsoft.com/en-us/azure/mariadb/connect-workbench>

### Question: 86

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
You must apply patches to Azure SQL databases regularly.	<input type="radio"/>	<input type="radio"/>
You need a Microsoft 365 subscription to create an Azure SQL database.	<input type="radio"/>	<input type="radio"/>
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
You must apply patches to Azure SQL databases regularly.	<input type="radio"/>	<input checked="" type="radio"/>
You need a Microsoft 365 subscription to create an Azure SQL database.	<input type="radio"/>	<input checked="" type="radio"/>
You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases.	<input checked="" type="radio"/>	<input type="radio"/>

Reference:

<https://azure.microsoft.com/en-gb/blog/hot-patching-sql-server-engine-in-azure-sql-database/>  
<https://azure.microsoft.com/en-us/services/sql-database/#product-overview>

### Question: 87

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/>

### Question: 88

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.

**Answer:**

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.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/transparent-data-encryption-tde-overview?tabs=azure-portal>

### Question: 89

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**

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/authentication-mfa-ssms-overview>

### Question: 90

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

By default, each Azure SQL database is protected by

- a network security group (NSG).
- a server-level firewall.
- Azure Firewall.
- Azure Front Door.

**Answer:**

By default, each Azure SQL database is protected by

- a network security group (NSG).
- a server-level firewall.
- Azure Firewall.
- Azure Front Door.

Reference:

<https://docs.microsoft.com/en-us/azure/security/fundamentals/infrastructure-sql>

### Question: 91

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>

### Question: 92



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.

**Answer:**

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.

Reference:

<https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-a-windows-firewall-for-database-engine-access?view=sql-server-ver15>

<https://docs.microsoft.com/en-us/azure/azure-sql/database/authentication-aad-overview>

<https://docs.microsoft.com/en-us/azure/azure-sql/database/always-encrypted-certificate-store-configure>

### Question: 93

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"/>

**Answer:**

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"/>

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability>

### Question: 94

Match the types of data stores to the appropriate scenarios.

To answer, drag the appropriate data store type from the column on the left to its scenario on the right.

Each data store type may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

#### Data Store Types

- Graph
- Object
- Key/value

#### Answer Area

- - 
  -
- Application users and their default language
- Medical images and their associated metadata
- Employee data that shows the relationships between employees

**Answer:**

- Key/value
  - Object
  - Graph
- Application users and their default language
- Medical images and their associated metadata
- Employee data that shows the relationships between employees

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/data-store-overview>

### Question: 95

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**

Reference:

<https://www.sqlshack.com/start-your-journey-with-azure-cosmos-db/>

### Question: 96

Your company is designing a data store that will contain student dat

a. The data has the following format.

StudentNumber	StudentInformation
7634634	First name: Ben Last: Smith Preferred Name: Benjamin
7634634	First Name: Dominik Last Name: Paiha Email Address: dpaiha@contoso.com MCP ID: 931817
7634636	First Name: Reshma Last Name: Patel Phone number: 514-555-1101
7634637	First Name: Yun-Feng Last Name: Peng

Which type of data store should you use?

- A. graph
- B. key/value
- C. object
- D. columnar

**Answer: D**

### Question: 97

Which storage solution supports role-based access control (RBAC) at the file and folder level?

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

---

**Answer: B**

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-access-control>

### Question: 98

You need to store data in Azure Blob storage for seven years to meet your company's compliance requirements. The retrieval time of the data is unimportant. The solution must minimize storage costs. Which storage tier should you use?

- A. Archive
- B. Hot
- C. Cool

**Answer: A**

### Question: 99

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**

### Question: 100

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

**Answer:**

Gremlin API

Graph data

MongoDB API

JSON documents

Table API

Key/value data

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/faq>

## Question: 101

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

To configure an Azure Storage account to support both security at the folder level and atomic directory manipulation,

	▼
enable the hierarchical namespace.	
set Account kind to BlobStorage.	
set Performance to Premium.	
set Replication to Read-access geo-redundant storage (RA-GRS).	

**Answer:**

To configure an Azure Storage account to support both security at the folder level and atomic directory manipulation,

	▼
enable the hierarchical namespace.	
set Account kind to BlobStorage.	
set Performance to Premium.	
set Replication to Read-access geo-redundant storage (RA-GRS).	

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/data-lake-storage-namespaces>

## Question: 102

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

You can query a graph database in Azure Cosmos DB

- as a JSON document by using a SQL-like language.
- as a partitioned row store by using Cassandra Query Language (CQL).
- as a partitioned row store by using Language-Integrated Query (LINQ).
- as nodes and edges by using the Gremlin language.

**Answer:**

You can query a graph database in Azure Cosmos DB

- as a JSON document by using a SQL-like language.
- as a partitioned row store by using Cassandra Query Language (CQL).
- as a partitioned row store by using Language-Integrated Query (LINQ).
- as nodes and edges by using the Gremlin language.

Reference:

<https://www.sqlshack.com/graph-database-implementation-with-azure-cosmos-db-using-the-api/>

### Question: 103

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?

- A. queue
- B. blob
- C. file
- D. table

**Answer: B**

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-files>

### Question: 104

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**

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/analytical-data-stores>

### Question: 105

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.	<input type="radio"/>	<input type="radio"/>
You can use blob, table, and file storage in the same Azure Storage account.	<input type="radio"/>	<input type="radio"/>
You implement Azure Data Lake Storage by creating an Azure Storage account.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
When ingesting data from Azure Data Lake Storage across Azure regions, you will incur costs for bandwidth.	<input checked="" type="radio"/>	<input type="radio"/>
You can use blob, table, and file storage in the same Azure Storage account.	<input checked="" type="radio"/>	<input type="radio"/>
You implement Azure Data Lake Storage by creating an Azure Storage account.	<input checked="" type="radio"/>	<input type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-get-started-portal>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

<https://azure.microsoft.com/en-us/pricing/details/bandwidth/>

### Question: 106

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

When using the Azure Cosmos DB Gremlin API, the container resource type is projected as a

	▼
graph.	
table.	
partition key.	
document.	

**Answer:**

When using the Azure Cosmos DB Gremlin API, the container resource type is projected as a

	▼
graph.	
table.	
partition key.	
document.	

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/create-graph-gremlin-console>

### Question: 107

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**

### Question: 108

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.	



**Answer:**

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.

### Question: 109

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.	<input type="radio"/>	<input type="radio"/>
A wind turbine that sends 50 sensor readings per second is an example of a streaming workload.	<input type="radio"/>	<input type="radio"/>
A home electricity meter that sends readings once a day to an energy provider is an example of a streaming workload.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
Processing salary payments once a month is an example of a batch workload.	<input checked="" type="radio"/>	<input type="radio"/>
A wind turbine that sends 50 sensor readings per second is an example of a streaming workload.	<input checked="" type="radio"/>	<input type="radio"/>
A home electricity meter that sends readings once a day to an energy provider is an example of a streaming workload.	<input type="radio"/>	<input checked="" type="radio"/>

### Question: 110

You need to gather real-time telemetry data from a mobile application.  
Which type of workload describes this scenario?

- A. Online Transaction Processing (OLTP)
- B. batch
- C. massively parallel processing (MPP)
- D. streaming

**Answer: D**

Reference:

<https://docs.microsoft.com/en-in/azure/azure-monitor/overview>

### Question: 111

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>

### Question: 112

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**

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipeline-execution-triggers#trigger-execution>

### Question: 113

Match the types of activities to the appropriate Azure Data Factory activities.

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

NOTE: Each correct match is worth one point.

### Activity Types

Control
Data movement
Data transformation

### Answer Area

	Copy
	Mapping data flow
	Until

**Answer:**

Data movement	Copy
Data transformation	Mapping data flow
Control	Until

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipelines-activities#data-transformation-activities>

### Question: 114

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: BDE**

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/online-transaction-processing>

### Question: 115

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**

### Question: 116

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

In Azure Data Factory, you can use ▼ to orchestrate pipeline

- a control flow
- a dataset
- a linked service
- an integration runtime

activities that depend on the output of other pipeline activities.

**Answer:**

In Azure Data Factory, you can use ▼ to orchestrate pipeline

- a control flow
- a dataset
- a linked service
- an integration runtime

activities that depend on the output of other pipeline activities.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/frequently-asked-questions>

### Question: 117

You have a quality assurance application that reads data from a data warehouse.  
Which type of processing does the application use?

- A. Online Transaction Processing (OLTP)
- B. batch processing
- C. Online Analytical Processing (OLAP)
- D. stream processing

**Answer: A**

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/relational-data/online-transaction-processing>

### Question: 118

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**

Reference:

<https://docs.microsoft.com/en-us/power-bi/consumer/end-user-dashboards>

<https://docs.microsoft.com/en-us/power-bi/create-reports/service-dashboard-add-widget>

### Question: 119

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.	<input type="radio"/>	<input type="radio"/>
A Microsoft Power BI dashboard can only display visualizations from a single dataset.	<input type="radio"/>	<input type="radio"/>
A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook.	<input type="radio"/>	<input type="radio"/>

**Answer:**

Statements	Yes	No
A Microsoft Power BI dashboard is associated with a single workspace.	<input type="radio"/>	<input checked="" type="radio"/>
A Microsoft Power BI dashboard can only display visualizations from a single dataset.	<input type="radio"/>	<input checked="" type="radio"/>
A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook.	<input checked="" type="radio"/>	<input type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/power-bi/connect-data/service-datasets-across-workspaces>

<https://docs.microsoft.com/en-us/power-bi/consumer/end-user-dashboards>  
<https://powerbi.microsoft.com/en-us/excel-and-power-bi/>

### Question: 120

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**

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/v1/data-factory-compute-linked-services>

### Question: 121

You need to use Transact-SQL to query files in Azure Data Lake Storage from an Azure Synapse Analytics data warehouse.

What should you use to query the files?

- A. Azure Functions
- B. Microsoft SQL Server Integration Services (SSIS)
- C. PolyBase
- D. Azure Data Factory

**Answer: C**

Reference:

<https://docs.databricks.com/data/data-sources/azure/synapse-analytics.html>

### Question: 122

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"/>

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