

# Practice Test 2

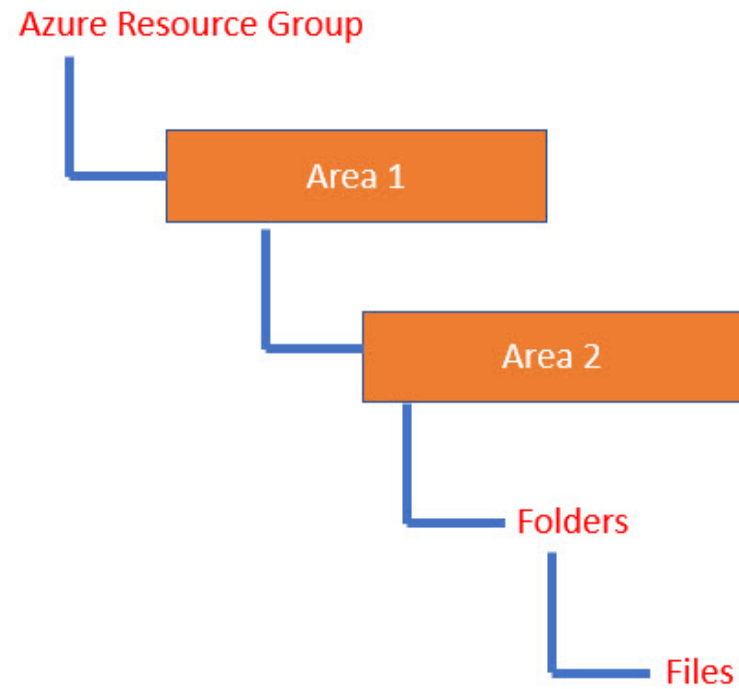
89 questions | 2 hours | 70% correct required to pass

This is a Practice test to test students

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★ Question 1:

You have an Azure Data Lake Storage account. You need to assign the appropriate levels in the hierarchy given below



Which of the following will come in Area 1?

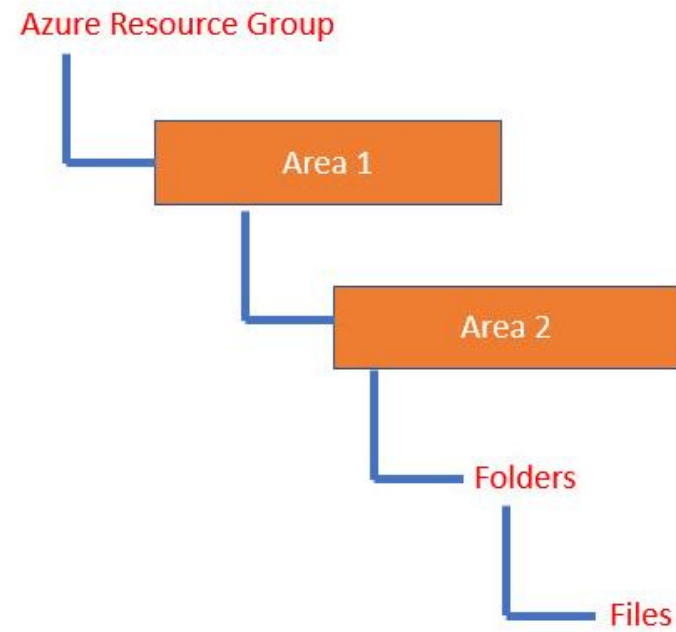
☐ Azure Storage account

☐ File share

☐ File system

★ Question 2:

You have an Azure Data Lake Storage account. You need to assign the appropriate levels in the hierarchy given below



Which of the following will come in Area 2?

☐ Azure Storage account

☐ File share

☐ File system

☐ Container

★ Question 3:

Which of the following do you need to configure in an Azure Storage account to support both security at a 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

★ Question 4:

Your company has to design a data store that will be used to store data from Internet connected temperature sensors. The collected data needs to be used to analyze temperature trends. Which of the following would you choose as the data store type?

☐ Relational

☐ Columnar

☐ Graph

☐ Time series

★ Question 5:

Which of the following is a benefit of the Azure Cosmos DB Table API when compared to Azure Table storage?

- ☐ Azure Cosmos DB Table API supports partitioning
- ☐ Azure Cosmos DB Table API provides resiliency if an Azure region fails
- ☐ Azure Cosmos DB Table API provides a higher storage capacity
- ☐ Azure Cosmos DB Table API supports a multi-master model

★ Question 6:

You need to map the right Azure data service that can be used to store different artifacts.

Which of the following can be stored in Azure Blob storage?

☐ Image files

☐ Key/value pairs

☐ Relationships between employees

★ Question 7:

You have to state whether the following is TRUE or FALSE.

**“Indexes in a relational database describe the data types in a table”**

☐ TRUE

☐ FALSE



★ Question 8:

You have to state whether the following is TRUE or FALSE.

**“A database view is a virtual table whose content is defined by a query”**

☐ TRUE

☐ FALSE

★ Question 9:

Which of the following are benefits of using the Azure SQL Database service?  
Choose 2 answers from the options given below

☐ Complete control over backup and restore processes

☐ Access to the latest features

☐ In-database machine learning services

☐ Reduced administrative effort for managing the server infrastructure

★ Question 10:

A company needs to ensure that an application hosted on an Azure virtual machine can connect to the Azure SQL Database without the need to expose the database to internet. Which of the following can be used for this requirement?

☐ Azure DNS

☐ Azure Application Gateway

☐ Azure Private link

☐ Azure Traffic Manager

★ Question 11:

You have to deploy a data store for an application. The data store needs to be a relational database that supports Online Transaction Processing (OLTP). Which of the following can be used for this requirement?

☐ Azure Cosmos DB

☐ Azure Synapse Analytics

☐ Azure SQL Database

★ Question 12:

You have to state whether the following is TRUE or FALSE.

**“If you have a platform as a service database in Azure, you are responsible for applying the operating system updates”**

☐ TRUE

☐ FALSE

★ Question 13:

You have to state whether the following is TRUE or FALSE.

**“If you have a platform as a service database in Azure, backups are performed automatically”**

☐ TRUE

☐ FALSE

★ Question 14:

You have to state whether the following is TRUE or FALSE.

**“If you have a platform as a service database in Azure, you are responsible for upgrading the database engine”**

☐ TRUE

☐ FALSE

★ Question 15:

You created an Azure SQL database. You were accessing the database from your workstation from the Internet. Your workstation then changed its IP address and now you cannot access the database anymore. Which of the following could be the cause of the issue?

☐ A database-level firewall

☐ Role-based access control (RBAC)

☐ Dynamic Host Configuration Protocol (DHCP)

☐ Domain Name Service (DNS)



★ Question 16:

When you initially create an Azure SQL Database, which of the following can always be used to connect to the database?

☐ The Azure Active directory/ (Azure AD) account that created the database

☐ The Azure Active Directory Azure AD administrator account

☐ The sa account

☐ The server admin login account of the logical server

★ Question 17:

You have to state whether the following is TRUE or FALSE.

**“Azure Data Studio can be used to query an Azure SQL Database from a device that runs macOS”**

☐ TRUE

☐ FALSE

★ Question 18:

You have to state whether the following is TRUE or FALSE.

**“Microsoft SQL Server Management Studio enables users to create and use SQL notebooks”**

☐ TRUE

☐ FALSE

★ Question 19:

You have to state whether the following is TRUE or FALSE.

**“Azure Data Studio can be used to restore a database”**

☐ TRUE

☐ FALSE

★ Question 20:

Which of the following is a benefit of hosting a database on an Azure SQL Managed instance when compared to an Azure SQL database?

☐ Native support for cross-database queries and transactions

☐ Built-in high availability

☐ System-Initiated automatic backups

☐ Support for encryption at rest

★ Question 21:

You have a table named Sales that contains the following data

SalesDate	SalesAmount	ProductID
4-Dec-19	\$2,000	1
5-Dec-19	\$40	2
5-Dec-19	\$2,300	1
6-Dec-19	\$40	3
6-Dec-19	\$200	4

You have to query the table to return the average sales amount per day. The output must be as per the following results

SalesDate	AVG(SalesAmount)
4-Dec-19	\$2,000
5-Dec-19	\$1,170
6-Dec-19	\$120

You need to complete the following query for this requirement

**Area 1** Salesdata, AVG(SalesAmount) FROM Sales **Area 2** SalesDate

Order By SalesDate

Which of the following would come in Area 1?

☐ CREATE

☐ GROUP BY

☐ ORDER BY

☐ SELECT

★ Question 22:

You have a table named Sales that contains the following data

SalesDate	SalesAmount	ProductID
4-Dec-19	\$2,000	1
5-Dec-19	\$40	2
5-Dec-19	\$2,300	1
6-Dec-19	\$40	3
6-Dec-19	\$200	4

You have to query the table to return the average sales amount per day. The output must be as per the following results

SalesDate	AVG(SalesAmount)
4-Dec-19	\$2,000
5-Dec-19	\$1,170
6-Dec-19	\$120

You need to complete the following query for this requirement

Area 1

Salesdata, AVG(SalesAmount) FROM Sales

Area 2

SalesDate

Order By SalesDate

Which of the following would come in Area 2?

☐ CREATE

☐ GROUP BY

☐ ORDER BY

☐ SELECT

★ Question 23:

You have to state whether the following is TRUE or FALSE.

**“Azure SQL Managed Instance supports cross-database queries”**

☐ TRUE

☐ FALSE



★ Question 24:

You have to state whether the following is TRUE or FALSE.

**“Azure SQL Managed Instance supports user-created backups”**

☐ TRUE

☐ FALSE



★ Question 25:

You have to state whether the following is TRUE or FALSE.

**“Azure SQL Managed Instance can be restored to SQL Server on an Azure virtual machine”**

☐ TRUE

☐ FALSE

★ Question 26:

A set of developers have computers that run Windows 10 and Ubuntu Desktop. They need to connect and query an Azure SQL database from their computer. The developers require code assistance features such as IntelliSense. Which of the following can be used for this requirement?

☐ Azure Data Studio

☐ Microsoft SQL Server Management Studio

☐ Azure Data Explorer

★ Question 27:

Which of the following is correct when it comes to Transparent Data Encryption?

- ☐ Transparent Data Encryption encrypts a column to protect data at rest and in transit
- ☐ Transparent Data Encryption encrypts queries and their results in order to protect data in transit
- ☐ Transparent Data Encryption encrypts the database to protect data at rest
- ☐ Transparent Data Encryption encrypts the server to protect data at rest

★ Question 28:

Which of the following is correct when it comes to Descriptive Analytics?

- ☐ Descriptive Analytics tells you what is most likely to occur in the future
- ☐ Descriptive Analytics tells you what occurred in the past
- ☐ Descriptive Analytics tells you which actions you can perform to affect outcomes
- ☐ Descriptive Analytics tells you why something occurred in the past

★ Question 29:

You have to state whether the following is TRUE or FALSE.

**“Normalization involves eliminating relationships between database tables”**

☐ TRUE

☐ FALSE

★ Question 30:

You have to state whether the following is TRUE or FALSE.

**“Normalizing a database reduces data redundancy”**

☐ TRUE

☐ FALSE

★ Question 31:

You need to map the right Azure data service that can be used to store different artifacts.

Which of the following can be stored in Azure Cosmos DB Gremlin API?

☐ Image files

☐ Key/value pairs

☐ Relationships between employees



★ Question 32:

You need to map the right Azure data service that can be used to store different artifacts.

Which of the following can be stored in Azure Table storage?

☐ Image files

☐ Key/value pairs

☐ Relationships between employees

★ Question 33:

Which of the following would you use for the following requirement?

**“A graphical tool for managing Azure SQL databases and viewing SQL execution plans”**

☐ Azure Data Studio

☐ Microsoft SQL Server Data Tools

☐ Microsoft SQL Server Management Studio

☐ Microsoft Visual Studio Code

★ Question 34:

Which of the following would you use for the following requirement?

**“A Microsoft SQL Server extension that supports connections to SQL Server and provides a rich editing experience for T-SQL”**

☐ Azure Data Studio

☐ Microsoft SQL Server Data Tools

☐ Microsoft SQL Server Management Studio

☐ Microsoft Visual Studio Code

★ Question 35:

Which of the following would you use for the following requirement?

**“A lightweight editor that can run on-demand SQL queries and view and save results as text, JSON or Microsoft Excel files”**

☐ Azure Data Studio

☐ Microsoft SQL Server Data Tools

☐ Microsoft SQL Server Management Studio

☐ Microsoft Visual Studio Code

★ Question 36:

Which of the following would you use for the following requirement?

**“A development tool for building Azure SQL Databases, Microsoft SQL Server relational databases, SQL Server Analysis services data models, SQL Server Integration Services packages and SQL Server Reporting Services reports”**

☐ Azure Data Studio

☐ Microsoft SQL Server Data Tools

☐ Microsoft SQL Server Management Studio

☐ Microsoft Visual Studio Code

★ Question 37:

Which of the following is an example of Data Manipulation Language (DML)?

☐ INSERT

☐ DISABLE

☐ ALTER

☐ DROP

★ Question 38:

You have designed a SQL query that combines the customer data and the order data. The query includes calculated columns. You have to persist the SQL query so that other users can use the query. Which of the following should you create for this requirement?

☐ A table

☐ An index

☐ Scalar function

☐ A view

★ Question 39:

Which of the following is used by Relational databases to enforce relationships between different tables?

☐ Collections

☐ Columns

☐ Keys

☐ Partitions



★ Question 40:

You have to state whether the following is TRUE or FALSE.

**“Platform as a service database offering in Azure require less setup and configuration effort than infrastructure as a service database offering”**

☐ TRUE

☐ FALSE

★ Question 41:

You have to state whether the following is TRUE or FALSE.

**“Platform as a service database offering in Azure provide administrators with the ability to control and update the operating system version”**

☐ TRUE

☐ FALSE

★ Question 42:

You have to state whether the following is TRUE or FALSE.

**“All platform as a service database offering in Azure can be paused to reduce costs”**

☐ TRUE

☐ FALSE

★ Question 43:

Which of the following is an Azure SQL database offering that supports automatic database scaling and automatic pausing of the database during inactive periods?

☐ Azure SQL Database Hyperscale

☐ Azure SQL managed instance

☐ Azure SQL Database serverless

☐ Azure SQL Database elastic pool

★ Question 44:

You have the following query

```
INSERT INTO dbo.Products (ProductID, ProductName, Price, ProductDescription)  
VALUES (1, 'Mobile' , 1000, 'Mobile device')
```

Which of the following is the right type that maps to dbo.Products?

☐ A column

☐ A database

☐ A table

☐ An index

★ Question 45:

You have the following query

```
INSERT INTO dbo.Products (ProductID, ProductName, Price, ProductDescription)  
VALUES (1, 'Mobile' , 1000, 'Mobile device')
```

Which of the following is the right type that maps to ProductName?

☐ A column

☐ A database

☐ A table

☐ An index

★ Question 46:

You have to state whether the following is TRUE or FALSE.

**“A relational database table contains columns and rows”**

☐ TRUE

☐ FALSE

★ Question 47:

You have to state whether the following is TRUE or FALSE.

**“Normalizing improves data integrity”**

☐ TRUE

☐ FALSE



★ Question 48:

Which of the following is correct when it comes to an extract, transform and load process?

- ☐ An extract , transform and load process requires a matching schema in the data source and the data target
- ☐ An extract , transform and load process requires a target data store powerful enough to transform the data
- ☐ An extract , transform and load process requires data that is fully processed before being loaded to the target data store
- ☐ An extract , transform and load process requires that the data target be a relational database.

★ Question 49:

Which of the following is correct when it comes to batch processing?

☐ In batch processing , data is always inserted one row at a time

☐ In batch processing , data is processed in real-time

☐ In batch processing , latency is expected

☐ In batch processing , processing can only occur serially

★ Question 50:

Which of the following is the right type of analytics when it comes to transcribing audio files?

☐ Cognitive

☐ Descriptive

☐ Predictive

☐ Prescriptive

★ Question 51:

You have the following JSON document

```
1 | "customer" : {  
2 |   "first name" : "Ben",  
3 |   "last name": "Smith",  
4 |   "address" : {  
5 |     "line 1" : "Address1",  
6 |     "line 2" : "Address2",  
7 |     "ZIP Code": "123"  
8 |   },  
9 |   "social media":[  
10 |    {  
11 |      "service": "twitter",  
12 |      "handle":"handle1"  
13 |    },  
14 |    {  
15 |      "service": "linkedin",  
16 |      "handle":"handle2"  
17 |    }],  
18 |   "numbers":[  
19 |     {  
20 |       "type":"mobile",  
21 |       "number":"111-222"  
22 |     }  
23 |   ]  
24 | }
```

Which of the following is the correct representation of the Customer in the JSON document?

☐ A nested array

☐ A nested object

☐ A root object

★ Question 52:

You have the following JSON document

```
1 | "customer" : {  
2 |   "first name" : "Ben",  
3 |   "last name": "Smith",  
4 |   "address" : {  
5 |     "line 1" : "Address1",  
6 |     "line 2" : "Address2",  
7 |     "ZIP Code": "123"  
8 |   },  
9 |   "social media":[  
10 |    {  
11 |      "service": "twitter",  
12 |      "handle":"handle1"  
13 |    },  
14 |    {  
15 |      "service": "linkedin",  
16 |      "handle":"handle2"  
17 |    }],  
18 |   "numbers":[  
19 |     {  
20 |       "type":"mobile",  
21 |       "number":"111-222"  
22 |     }  
23 |   ]  
24 | }
```

Which of the following is the correct representation of the Address in the JSON document?

☐ A nested array

☐ A nested object

☐ A root object

★ Question 53:

You have the following JSON document

```
1 | "customer" : {  
2 |   "first name" : "Ben",  
3 |   "last name": "Smith",  
4 |   "address" : {  
5 |     "line 1" : "Address1",  
6 |     "line 2" : "Address2",  
7 |     "ZIP Code": "123"  
8 |   },  
9 |   "social media":[  
10 |    {  
11 |      "service": "twitter",  
12 |      "handle":"handle1"  
13 |    },  
14 |    {  
15 |      "service": "linkedin",  
16 |      "handle":"handle2"  
17 |    }],  
18 |   "numbers":[  
19 |     {  
20 |       "type":"mobile",  
21 |       "number":"111-222"  
22 |     }  
23 |   ]  
24 | }
```

Which of the following is the correct representation of the Social Media in the JSON document?

☐ A nested array

☐ A nested object

☐ A root object

★ Question 54:

Which of the following is the right term for the following?

**“An object that is associated with a table that sorts and stores the data rows in the table based on their key values”**

☐ A clustered index

☐ A FileTable

☐ A foreign key

☐ A stored procedure

★ Question 55:

Which of the following is correct when it comes to a relational database?

☐ A dynamic schema is required

☐ Data will be stored as key/value pairs

☐ Storing large images and videos

☐ Strong consistency guarantees are required



★ Question 56:

You have an Azure SQL Database. You need to query a table named Products. Which of the following are requirements that need to be fulfilled to access the table?

Choose 3 answers from the options given below

☐ You must be assigned the Reader role for the resource group that contains the database.

☐ You must have SELECT access to the Products table.

☐ You must have a user in the database.

☐ You must be assigned the Contributor role for the resource group that contains the database.

☐ Your IP address must be allowed to connect to the database.

★ Question 57:

You have to state whether the following is TRUE or FALSE.

**“You can use existing Microsoft SQL Server licenses to reduce the cost of Azure SQL databases ”**

☐ TRUE

☐ FALSE

★ Question 58:

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

☐ SELECT

☐ JOIN

☐ MERGE

☐ CREATE

★ Question 59:

You have to ensure that users use multi-factor authentication when connecting to an Azure SQL

database. Which type of authentication would you implement for this requirement?

☐ Service principal authentication

☐ Azure Active Directory (Azure AD) authentication

☐ SQL authentication

☐ Certificate authentication

★ Question 60:

Which of the following statement is correct about Azure SQL database?

☐ By default , each Azure SQL database is protected by a network security group

☐ By default , each Azure SQL database is protected by a server level firewall

☐ By default , each Azure SQL database is protected by Azure Firewall

☐ By default , each Azure SQL database is protected by Azure Front Door

★ Question 61:

You have to design and model a database by using a graphical tool that supports object-oriented offline database development. Which of the following could you use for this requirement?

☐ Microsoft SQL Server Data Tools (SSDT)

☐ Microsoft SQL Server Management Studio (SSMS)

☐ Azure Databricks

☐ Azure Data Studio

★ Question 62:

You have to map the relevant security component to the appropriate scenario

Which of the following would you map for the following scenario?

**“Prevent access to an Azure SQL database from another network”**

☐ Authentication

☐ Firewall

☐ Encryption

★ Question 63:

You have to map the relevant security component to the appropriate scenario

Which of the following would you map for the following scenario?

**“Support Azure Active Directory sign-ins to an Azure SQL database”**

☐ Authentication

☐ Firewall

☐ Encryption



★ Question 64:

You have to map the relevant security component to the appropriate scenario

Which of the following would you map for the following scenario?

**“Ensure that sensitive data never appears as plain text in an Azure SQL database”**

☐ Authentication

☐ Firewall

☐ Encryption

★ Question 65:

You have to state whether the following is TRUE or FALSE.

**“Azure Table storage supports multiple write regions”**

☐ TRUE

☐ FALSE

★ Question 66:

You have to state whether the following is TRUE or FALSE.

**“The Azure Cosmos DB Table API supports multiple read replicas”**

☐ TRUE

☐ FALSE

★ Question 67:

You have to map the relevant data store type to the appropriate scenario

Which of the following would you map for the following scenario?

**“Storage of Application user data and their default language”**

☐ Graph

☐ Object

☐ Key/value

★ Question 68:

You have to map the relevant data store type to the appropriate scenario

Which of the following would you map for the following scenario?

**“Medical images and their associated metadata”**

☐ Graph

☐ Object

☐ Key/value

★ Question 69:

You have to map the relevant data store type to the appropriate scenario

Which of the following would you map for the following scenario?

**“Employee data that shows the relationships between employees”**

☐ Graph

☐ Object

☐ Key/value

★ Question 70:

You have an Azure Cosmos DB account of the Core SQL API. Which of the following are settings that can be configured at the container level? Choose 2 answers from the options given below

☐ The throughput

☐ The read region

☐ The partition key

☐ The API

★ Question 71:

Which of the following is projected as the container resource type when using the Azure Cosmos DB Gremlin API?

☐ Graph

☐ Table

☐ Partition key

☐ Document



★ Question 72:

Which of the following is an example of a streaming workload?

☐ Sending transactions that are older than a month to an archive

☐ Sending transactions daily from point of sale (POS) devices

☐ Sending telemetry data from edge devices

☐ Sending cloud infrastructure metadata every 30 minutes

★ Question 73:

Which of the following is TRUE when it comes to batch workloads?

- ☐ Batch workloads process data in memory, row-by-row
- ☐ Batch workloads collect and process data at most once a day
- ☐ Batch workloads process data as new data is received in real-time
- ☐ Batch workloads collect data and then process the data when a condition is met

★ Question 74:

You have to state whether the following is TRUE or FALSE.

**“Processing salary payments once a month is an example of a batch workload”**

☐ TRUE

☐ FALSE

★ Question 75:

You have to state whether the following is TRUE or FALSE.

**“A wind turbine that sends 50 sensor readings per second is an example of a streaming workload”**

☐ TRUE

☐ FALSE

★ Question 76:

You have to state whether the following is TRUE or FALSE.

**“A home electricity meter that sends readings once a day to an energy provider is an example of a streaming workload ”**

☐ TRUE

☐ FALSE

★ Question 77:

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

☐ Online Transaction Processing (OLTP)

☐ Batch

☐ Massively parallel processing (MPP)

☐ Streaming

★ Question 78:

You have an Azure Synapse Analytics SQL pool. The pool is used every night for 6 hours. You have to consider minimizing the cost of the SQL pool during idle times but ensure that the data remains intact. Which of the following can be used for this requirement?

☐ Scale down the data warehouse units (DWUs).

☐ Pause the pool.

☐ Create a user-defined restore point.

☐ Delete the pool

★ Question 79:

Which of the following initiates the execution of an Azure Data Factory pipeline?

☐ a control flow

☐ a trigger

☐ a parameter

☐ an activity



★ Question 80:

You have to map the right activity to the appropriate Azure Data Factory activities.

Which of the following would be mapped to the “Copy” activity in Azure Data Factory?

☐ Control

☐ Data movement

☐ Data transformation

★ Question 81:

You have to map the right activity to the appropriate Azure Data Factory activities.

Which of the following would be mapped to the “Mapping data flow” activity in Azure Data Factory?

☐ Control

☐ Data movement

☐ Data transformation

★ Question 82:

You have to map the right activity to the appropriate Azure Data Factory activities.

Which of the following would be mapped to the “Until” activity in Azure Data Factory?

☐ Control

☐ Data movement

☐ Data transformation

★ Question 83:

Which of the following are characteristics of an Online Transaction Processing (OLTP) workload? Choose 3 answers from the options given below

☐ denormalized data

☐ heavy writes and moderate reads

☐ light writes and heavy reads

☐ schema on write

☐ schema on read

☐ normalized data

★ Question 84:

Which of the following is used in an Azure Data Factory pipeline to orchestrate activities that depend on the output of other pipeline activities?

☐ A control flow

☐ A dataset

☐ A linked service

☐ An integration runtime

★ Question 85:

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

☐ Online Transaction Processing (OLTP)

☐ Batch processing

☐ Online Analytical Processing (OLAP)

☐ Stream processing

★ Question 86:

Can batch processing be used to output data to a file store?

☐ Yes

☐ No

★ Question 87:

Can batch processing be used to output data to a NoSQL database?

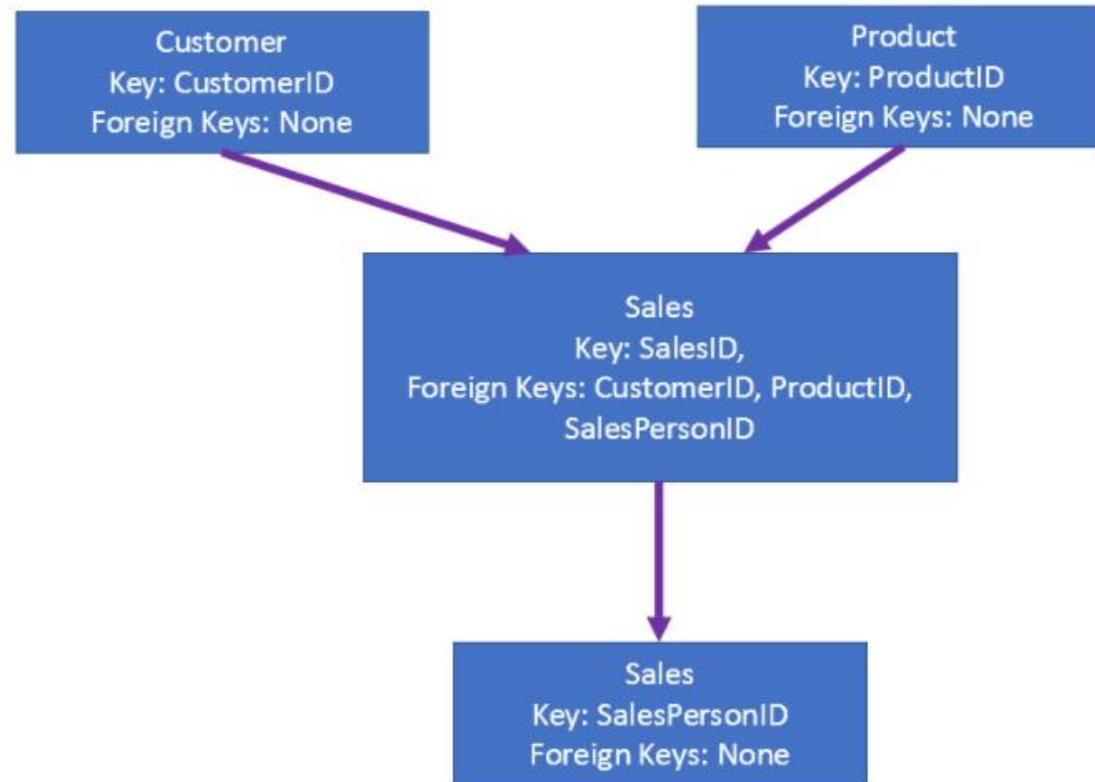
☐ Yes

☐ No



★ Question 88:

One of your teams has the following data model in place



Which of the following is the representation of this data model?

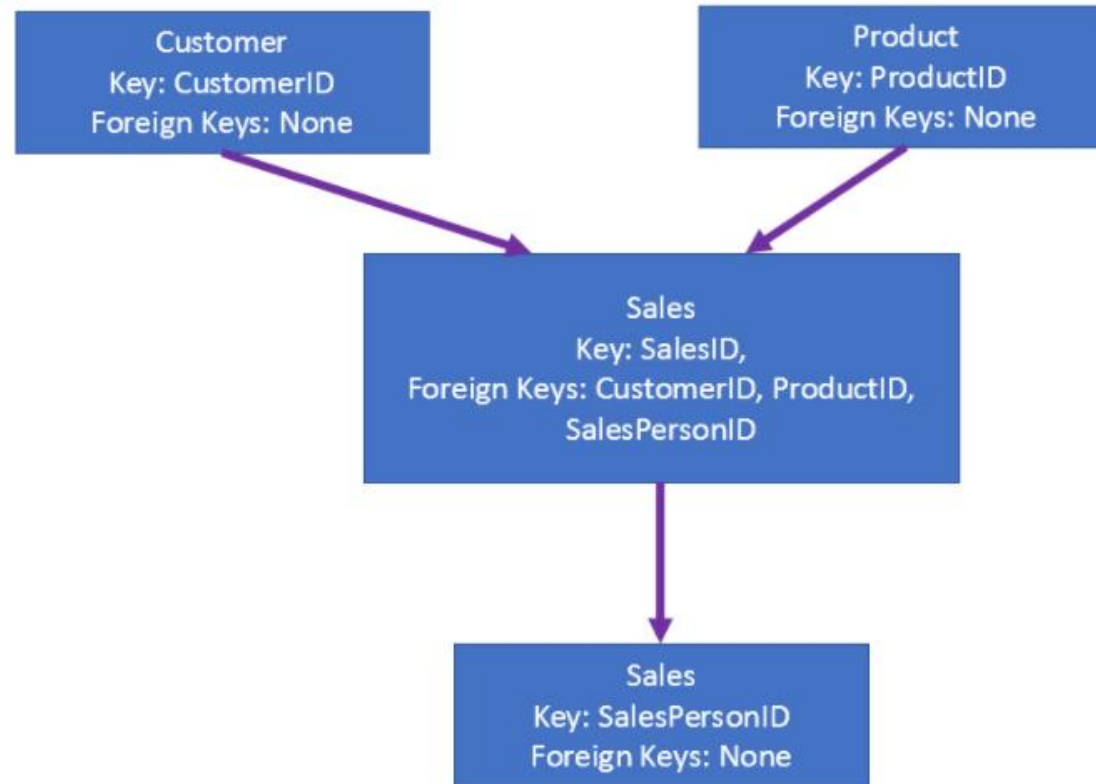
☐ Transactional model

☐ Star schema

☐ Snowflake schema

★ Question 89:

One of your teams has the following data model in place



Which of the following is the table type for the Customer table?

☐ Fact

☐ Dimension

☐ Bridge