

# Practice Test 1

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

This is a Practice test to test students

★ Question 1:

A relational database is appropriate for which of the below scenarios?

- ☐ For those scenarios where there is a high volume of changes to relationships between entities
- ☐ For those scenarios where there is a high volume of geographic distributed writes
- ☐ For those scenarios where there is a high volume of transactional writes
- ☐ For those scenarios where there is a high volume of writes that have varying data structures

★ Question 2:

Which of the following is required for an extract, load and transform (ELT) process?

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

★ Question 3:

A company wants to load data from a customer relationship management system onto a data warehouse by using an extract , load and transform process.

Which of the following is the stage in the ELT process you would perform the process of Extract?

☐ An in-memory data integration tool

☐ The CRM system

☐ The data warehouse

★ Question 4:

A company wants to load data from a customer relationship management system onto a data warehouse by using an extract , load and transform process.

Which of the following is the stage in the ELT process you would perform the process of Load?

☐ An in-memory data integration tool

☐ The CRM system

☐ The data warehouse

★ Question 5:

A company wants to load data from a customer relationship management system onto a data warehouse by using an extract , load and transform process.

Which of the following is the stage in the ELT process you would perform the process of Transform?

☐ An in-memory data integration tool



☐ The CRM system

☐ The data warehouse

★ Question 6:

A company is planning on implementing the following workloads.

- 1) Storage of data for a product catalog that will be loaded every 12 hours to a data warehouse
- 2) Storage of data for online purchases will be loaded to a data warehouse as the purchases occur
- 3) Updates to the inventory data that will be loaded to a data warehouse every 1000 transactions

Which of the following is the workload type for the workload?

**“Storage of data for a product catalog that will be loaded every 12 hours to a data warehouse”**

☐ Batch

☐ Micro-Batch

☐ Streaming

★ Question 7:

A company is planning on implementing the following workloads.

- 1) Storage of data for a product catalog that will be loaded every 12 hours to a data warehouse
- 2) Storage of data for online purchases will be loaded to a data warehouse as the purchases occur
- 3) Updates to the inventory data that will be loaded to a data warehouse every 1000 transactions

Which of the following is the workload type for the workload?

**“Storage of data for online purchases will be loaded to a data warehouse as the purchases occur”**

☐ Batch

☐ Micro-Batch

☐ Streaming



★ Question 8:

A company is planning on implementing the following workloads.

- 1) Storage of data for a product catalog that will be loaded every 12 hours to a data warehouse
- 2) Storage of data for online purchases will be loaded to a data warehouse as the purchases occur
- 3) Updates to the inventory data that will be loaded to a data warehouse every 1000 transactions

Which of the following is the workload type for the workload?

**“Updates to the inventory data that will be loaded to a data warehouse every 1000 transactions”**

☐ Batch

☐ Micro-Batch

☐ Streaming

★ Question 9:

You need to match the right type of analytics that can be used for the following business scenario?

**“Why did the sales increase last month”**

☐ Cognitive

☐ Descriptive

☐ Diagnostics

☐ Predictive

☐ Prescriptive

★ Question 10:

You need to match the right type of analytics that can be used for the following business scenario?

**“Which people are mentioned in a company’s business documents”**

☐ Cognitive

☐ Descriptive

☐ Diagnostics

☐ Predictive

☐ Prescriptive

★ Question 11:

Which of the following is the right option when it comes to relational data?

- ☐ Relational data is stored in a file system as unstructured data
- ☐ Relational data is stored in a hierarchical folder structure
- ☐ Relational data is stored in a tabular form of rows and columns
- ☐ Relational data is stored in a comma-separated value file

★ Question 12:

Which of the following are two uses of data visualization? Choose 2 answers from the options given

☐ Represent trends and patterns over time.

☐ Communicate the significance of data.

☐ Implement machine learning to predict future values.

☐ Consistently implement business logic across reports

★ Question 13:

A company is planning on implementing the following workloads.

- 1) Analyzing web traffic from the past year
- 2) Classifying images that were uploaded last month
- 3) Tracking how many people are currently using a website

Which of the following is the workload type for the workload?

**“Analyzing web traffic from the past year”**

☐ Batch



☐ Streaming

★ Question 14:

A company is planning on implementing the following workloads.

- 1) Analyzing web traffic from the past year
- 2) Classifying images that were uploaded last month
- 3) Tracking how many people are currently using a website

Which of the following is the workload type for the workload?

**“Classifying images that were uploaded last month”**

☐ Batch

☐ Streaming

★ Question 15:

A company is planning on implementing the following workloads.

- 1) Analyzing web traffic from the past year
- 2) Classifying images that were uploaded last month
- 3) Tracking how many people are currently using a website

Which of the following is the workload type for the workload?

**“Tracking how many people are currently using a website”**

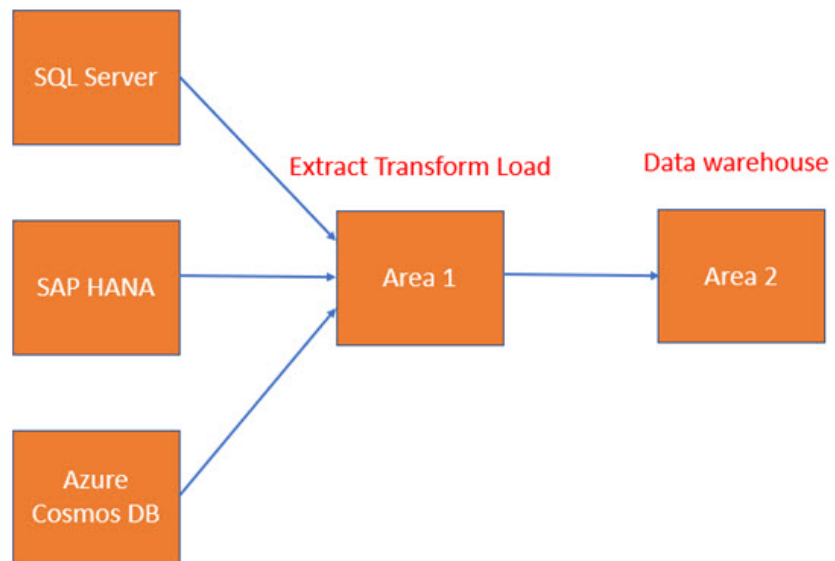
☐ Batch

☐ Streaming



★ Question 16:

You need to complete the architecture



Which of the following would go into Area 1?

☐ Azure Analysis services

☐ Azure Data Factory

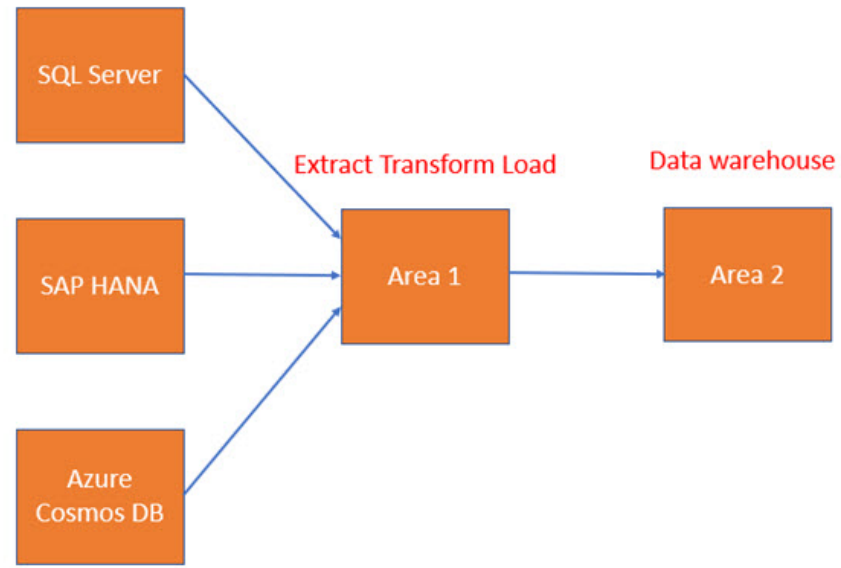
☐ Azure Cosmos DB

☐ Azure Synapse Analytics

☐ Azure Table storage

★ Question 17:

You need to complete the architecture



Which of the following would go into Area 2?

☐ Azure Analysis services

☐ Azure Data Factory

☐ Azure Cosmos DB

☐ Azure Synapse Analytics

☐ Azure Table storage

★ Question 18:

You have an application that performs reads and writes data to an Azure SQL Database. Which of the following is the type of processing that can be performed on the database?

☐ Stream processing

☐ Batch processing

☐ Online Analytical Processing (OLAP)

☐ Online Transaction Processing (OLTP)

★ Question 19:

Which of the following are two aspects of real-time data processing?

☐ Data is processed as it is created.

☐ Low latency is expected

☐ High latency is expected

☐ Data is processed periodically

★ Question 20:

Which of the following are two Azure services that can be used to provision Spark clusters?

☐ Azure Databricks

☐ Azure Log Analytics

☐ Azure Time Series Insights

☐ Azure HDInsight

★ Question 21:

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

**“A pipeline is a representation of a data structure within Azure Data Factory”**

☐ TRUE

☐ FALSE

★ Question 22:

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

**“Azure Data Factory can execute other pipelines”**

☐ TRUE

☐ FALSE

★ Question 23:

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

**“A processing step within an Azure Data Factory pipeline is an activity”**

☐ TRUE

☐ FALSE



★ Question 24:

You have to work with the Azure Data Factory service. You need to map the Azure Data Factory components to the right descriptions.

Which of the following component should be mapped to the following description?

**“ A representation of data structures within data stores”**

☐ Dataset

☐ Linked service

☐ Mapping data flow

☐ Pipeline

★ Question 25:

Which of the following component should be mapped to the following description?

**“The information used to connect to external data sources”**

☐ Dataset

☐ Linked service

☐ Mapping data flow

☐ Pipeline

★ Question 26:

Which of the following component should be mapped to the following description?

**“ A logical grouping of activities that performs a unit of work and can be scheduled”**

☐ Dataset

☐ Linked service

☐ Mapping data flow

☐ Pipeline

★ Question 27:

You need to select the appropriate an Azure service that would be used for a particular requirement. Which of the following would you use for the following requirement?

**“Output data to Parquet format”**

☐ Azure Data Factory

☐ Azure Data Lake Storage

☐ Azure SQL Database

☐ Azure Synapse Analytics

★ Question 28:

Which of the following would you map to the Graph data structure?

☐ Cassandra API

☐ Gremlin API

☐ MongoDB API

☐ Table API

★ Question 29:

You need to map the appropriate Azure Cosmos DB API's to the appropriate data structures

Which of the following would you map to the JSON data structure?

☐ Cassandra API

☐ Gremlin API

☐ MongoDB API

☐ Table API

★ Question 30:

You need to map the appropriate Azure Cosmos DB API's to the appropriate data structures

Which of the following would you map to the Key/Value data structure?

☐ Cassandra API

☐ Gremlin API

☐ MongoDB API

☐ Table API

★ Question 31:

You currently manage an application that stores data within a shared folder on a Windows server. You have to move the shared folder to Azure Storage. Which of the following service within an Azure storage account could you use for this purpose?

☐ Queue

☐ Blob

☐ File

☐ Table



★ Question 32:

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

**“When data is ingested from Azure Data Lake Storage across Azure regions, then you will incur costs for bandwidth”**

☐ TRUE

☐ FALSE

★ Question 33:

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

**“You can use the blob, table and file storage service in the same Azure Storage account”**

☐ TRUE

☐ FALSE

★ Question 34:

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

**“You can implement Azure Data Lake Storage by creating an Azure Storage account”**

☐ TRUE

☐ FALSE

★ Question 35:

Which of the following is an Azure Data Factory component that provides the compute environment for activities?

☐ A linked service

☐ An integration runtime

☐ A control flow

☐ A pipeline

★ Question 36:

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

**“Azure Databricks is an Apache Spark-based collaborative analytics platform”**

☐ TRUE

☐ FALSE

★ Question 37:

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

**“Azure Data Factory orchestrates data Integration workflows”**

☐ TRUE

☐ FALSE

★ Question 38:

You need to select the appropriate an Azure service that would be used for a particular requirement. Which of the following would you use for the following requirement?

**“Store data in Parquet format”**

☐ Azure Data Factory

☐ Azure Data Lake Storage

☐ Azure SQL Database

☐ Azure Synapse Analytics

★ Question 39:

You need to select the appropriate an Azure service that would be used for a particular requirement. Which of the following would you use for the following requirement?

**“Persist a tabular representation of data that is stored in Parquet format”**

☐ Azure Data Factory

☐ Azure Data Lake Storage

☒ Azure SQL Database



☐ Azure Synapse Analytics



★ Question 40:

Which of the following is the right statement when it comes to the massively parallel processing engine in Azure Synapse Analytics?

- ☐ The massively parallel processing engine of Azure Synapse Analytics distributes processing across compute nodes
- ☐ The massively parallel processing engine of Azure Synapse Analytics distributes processing across control nodes
- ☐ The massively parallel processing engine of Azure Synapse Analytics redirects client connections across compute nodes
- ☐ The massively parallel processing engine of Azure Synapse Analytics redirects client connections across control nodes

★ Question 41:

Which of the following is an Azure storage solution that provides native support for POSIX-compliant access control lists?

☐ Azure Queue storage

☐ Azure Data Lake Storage

☒ Azure table storage

☐ Azure Files

★ Question 42:

Your company currently has a transactional application that stores data in an Azure SQL Managed instance. In which of the following circumstances would you need to implement a read-only database replica?

☐ You need to generate reports without affecting the transactional workload.

☐ You need to audit the transactional application.

☐ You need to implement high availability in the event of a regional outage

☐ You need to improve the recovery point objective (RPO).

★ Question 43:

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

**“Azure Synapse Analytics scales storage and compute independently”**

☐ TRUE

☐ FALSE

★ Question 44:

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

**“Azure Synapse Analytics can be paused to save on compute costs”**

☐ TRUE

☐ FALSE

★ Question 45:

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

**“An Azure Synapse Analytics data warehouse has fixed storage capacity”**

☐ TRUE

☐ FALSE

★ Question 46:

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

**“Azure Databricks can consume data from an Azure SQL database”**

☐ TRUE

☐ FALSE

★ Question 47:

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

**“Azure Databricks can consume data from Azure Event Hubs”**

☐ TRUE

☐ FALSE



★ Question 48:

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

**“Azure Databricks can consume data from Azure Cosmos DB”**

☐ TRUE

☐ FALSE

★ Question 49:

Which of the following is TRUE when it comes a key/value data store?

☐ A key value data store is optimized for enforcing constraints

☐ A key value data store is optimized for simple lookups

☐ A key value data store is optimized for table joins

☐ A key value data store is optimized for transactions

★ Question 50:

Your company has an application that runs on Windows. It needs access to a mapped drive. Which of the following is an Azure service you can use for this requirement?

☐ Azure Cosmos DB

☐ Azure Table storage

☐ Azure Files

☐ Azure Blob storage

★ Question 51:

Which of the following is TRUE when it comes a graph database in Azure Cosmos DB?

- ☐ You can query a graph database in Azure Cosmos DB as a JSON document by using a SQL-like language
- ☐ You can query a graph database in Azure Cosmos DB as a partitioned row store by using Cassandra Query language
- ☐ You can query a graph database in Azure Cosmos DB as a partitioned row store by using Language-Integrated Query
- ☐ You can query a graph database in Azure Cosmos DB as nodes and edges by using Gremlin language

★ Question 52:

Your company needs to design a database that shows how traffic changes in one area of a network affect other components on the network. Which of the following is a data store type you would use for this requirement?

☐ Key/value

☐ Graph

☐ Document

☐ Columnar

★ Question 53:

Your company needs a non-relational data store that is optimized for storing and retrieving files, videos, audio streams and virtual disk images. The data store must be able to store data , metadata and a unique ID for each file.

Which of the following is a data store type you would choose for this requirement?

☐ Document

☐ Key/value

☐ Object

☐ Columnar

★ Question 54:

Your company wants to have an Azure storage account in place. They want to ensure that the data is replicated in another Azure region automatically. Which of the following can be used as the replication strategy for the storage account? Choose 2 answers from the options given below

☐ Read-access geo-redundant storage (RA\_GRS)

☐ Zone-redundant storage (ZRS)

☐ Geo-redundant storage (GRS)

☐ Locally-redundant storage (LRS)

★ Question 55:

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

**“The Azure Cosmos DB API is configured separately for each database in an Azure Cosmos DB account”**

☐ TRUE

☐ FALSE



★ Question 56:

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

**“Partition keys are used in Azure Cosmos DB to optimize queries”**

☐ TRUE

☐ FALSE

★ Question 57:

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

**“Items contained in the same Azure Cosmos DB logical partition can have different partition keys”**

☐ TRUE

☐ FALSE

★ Question 58:

Which of the following is the right use case for an Azure Resource Manager template?

- ☐ To automate the creation of an interdependent group of Azure resources in a repeatable way
- ☐ To automate the creation of an interdependent resources that can be deployed from the Azure portal
- ☐ To provision Azure subscriptions and apply policies for multi-tenant deployments
- ☐ To set complex permissions automatically on existing objects in an Azure subscription

★ Question 59:

Which of the following is a feature in Azure Cosmos DB that provides redundancy within an Azure region?

☐ Multi-master replication

☐ Availability Zones

☐ Automatic failover

☐ The strong consistency level

★ Question 60:

At which of the following level in Azure Cosmos DB can you configure multiple write regions and read regions?

☐ database

☐ partition

☐ collection

☐ account

★ Question 61:

Your company is planning on designing an application that will write a high volume of JSON data that will have an application-defined schema. Which of the following can you specify as the data store type for this requirement?

☐ key/value

☐ document

☐ graph

☐ columnar

★ Question 62:

At which of the following levels can you set the throughput for an Azure Cosmos DB account? Choose 2 answers from the options given below

☐ container

☐ item

☐ database

☐ partition

★ Question 63:

You have the following table in place

ProductName	Quantity
ProductA	100
ProductB	200
ProductC	300

Which statement should you use in a SQL query to change the quantity of ProductB to 400?

☐ INSERT

☐ MERGE

☐ UPDATE

☐ CREATE



★ Question 64:

Your company needs to implement a relational database in Azure. The solution must minimize ongoing maintenance. Which of the following can be implemented for this requirement?

☐ Azure HDInsight

☐ Azure SQL Database

☐ Azure Cosmos DB

☐ SQL Server on Azure virtual machines

★ Question 65:

You have to write a set of queries that will help administrators to troubleshoot an Azure SQL database. You have to be able to embed the documents and query results into a SQL notebook. Which of the following would you use for this requirement?

☐ Microsoft SQL Server Management Studio (SSMS)

☐ Azure Data Studio

☐ Azure CLI

☐ Azure PowerShell

★ Question 66:

You have to map the right term to the term description.

Which of the following would you map to the following description?

**“ A database object that holds data”**

☐ Index

☐ View

☐ Table

★ Question 67:

You have to map the right term to the term description.

Which of the following would you map to the following description?

**“ A database object whose content is defined by a query”**

☐ Index

☐ View

☐ Table

★ Question 68:

You have to map the right term to the term description.

Which of the following would you map to the following description?

**“ A database object that helps improve the speed of data retrieval”**

☐ Index

☐ View

☐ Table

★ Question 69:

Which of the following is a command line tool that can be used to query Azure SQL databases?

☐ sqlcmd

☐ bcp

☐ azdata

☐ Azure CLI

★ Question 70:

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

**“Azure SQL Database includes a fully managed backup service”**

☐ TRUE

☐ FALSE

★ Question 71:

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

**“Azure SQL Database has built-in high availability”**

☐ TRUE

☐ FALSE



★ Question 72:

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

**“Azure SQL Database can use Azure Advanced Threat Protection”**

☐ TRUE

☐ FALSE

★ Question 73:

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

**“You can use Azure Data Studio to query a Microsoft SQL Server big data cluster”**

☐ TRUE

☐ FALSE

★ Question 74:

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

**“You can use Microsoft SQL Server Management Studio to query an Azure Synapse Analytics data warehouse”**

☐ TRUE

☐ FALSE

★ Question 75:

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

**“You can use MySQL Workbench to query Azure Database for MariaDB databases”**

☐ TRUE

☐ FALSE

★ Question 76:

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

**“You must apply patches to Azure SQL databases regularly”**

☐ TRUE

☐ FALSE

★ Question 77:

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

**“You need a Microsoft 365 subscription to create an Azure SQL database”**

☐ TRUE

☐ FALSE

★ Question 78:

Your company has to design a data store that would contain student data. A sample of the data is shown below

StudentNumber	StudentInformation
123344	FirstName: James Last:Smith
345554	FirstName: John Last: Dean Email: john@gmail.com
325456	Phone number: 122-900-1101

Which of the following would be the ideal data store type?

☐ Graph

☐ Key/value

☐ Object

☐ Columnar

★ Question 79:

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

☐ Azure Disk Storage

☐ Azure Data Lake Storage

☐ Azure Blob storage

☐ Azure Queue storage



★ Question 80:

Your company need to store data in Azure Blob storage. The data needs to be stored for seven years. The retrieval time of the data is unimportant. The solution must minimize storage costs. Which of the following is the ideal storage tier to use for this requirement?

☐ Archive

☐ Hot

☐ Cool

★ Question 81:

Which of the following is an example of an analytics bar chart that shows year-to-date sales by region?

☐ descriptive

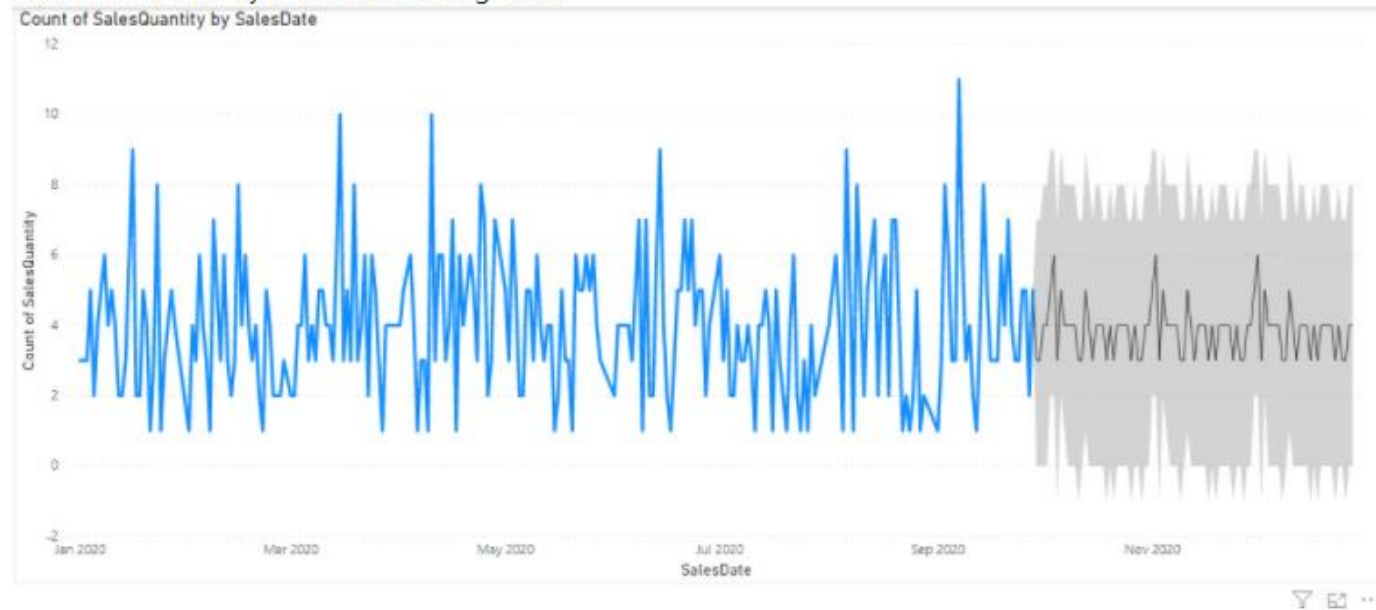
☐ diagnostic

☐ predictive

☐ prescriptive

★ Question 82:

Your team currently has the following chart



What is the type of analysis is being depicted in the 4th quarter?

☐ Predictive

☐ Prescriptive

☐ Descriptive

☐ Diagnostic

★ Question 83:

You need to match the right type of analytics that can be used for the following business scenario?

**“How do I allocate my budget to buy different inventory items”**

☐ Cognitive

☐ Descriptive

☐ Diagnostics

☐ Predictive

☐ Prescriptive

★ Question 84:

Which of the following statement is right when it comes to Microsoft Power BI?

- ☐ A Microsoft Power BI dashboard enables users to create highly formatted ,fixed layout documents
- ☐ A Microsoft Power BI interactive report enables users to create highly formatted ,fixed layout documents
- ☐ A Microsoft Power BI paginated report enables users to create highly formatted ,fixed layout documents

★ Question 85:

You have to develop a solution that needs to provide data to senior executives.  
Below are the key requirements

- a) The solution must provide an interactive graphic interface
- b) It must depict various key performance indicators
- c) It must support data exploration by using drill down

Which of the following can be used within Microsoft BI for this requirement?

☐ A dashboard

☐ Microsoft Power Apps

☐ A dataflow

☐ A report

★ Question 86:

Which of the following needs to be used to build a Microsoft Power BI paginated report?

☐ Power BI Report Builder

☐ Power BI Desktop

☐ Charticator

☐ The Power BI service

★ Question 87:

You have to develop a reporting solution for your company. The solution needs to support paginated reports. The reports should be able to query a dimensional model in a data warehouse. Which of the following type of processing must the reporting solution use?

☐ A stream processing

☐ Online Transaction Processing (OLTP)

☐ Batch processing

☐ Online Analytical Processing (OLAP)



★ Question 88:

Which of the following are activities that are performed in the Microsoft Power BI service? Choose 2 answers from the options given below

☐ Report and dashboard creation

☐ Report sharing and distribution

☐ Data modeling

☐ Data acquisition and preparation

★ Question 89:

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

**“A Microsoft Power BI dashboard is associated with a single workspace”**

☐ TRUE

☐ FALSE

★ Question 90:

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

**“A Microsoft Power BI dashboard can only display visualizations from a single dataset”**

☐ TRUE

☐ FALSE

★ Question 91:

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

**“A Microsoft Power BI dashboard can display visualizations from a Microsoft Excel workbook”**

☐ TRUE

☐ FALSE