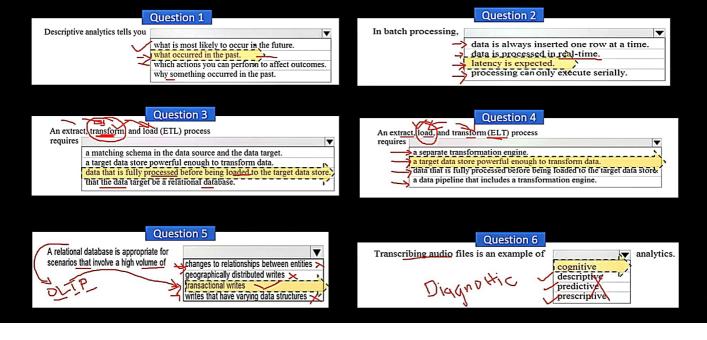
DP 900 - Exam Questions [Episode 1]







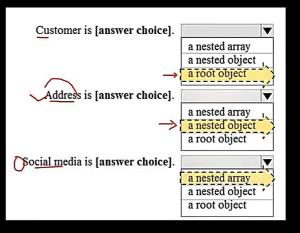
DP 900 - Exam Questions [Episode 1] BlackBoard Question 8 Question 7 A visualization that shows a university's current student enrollment versus the maximum capacity is an example of A relational database is appropriate for scenarios that involve a high volume of analytics. changes to relationships between entities descriptive predictive geographically distributed writes prescriptive Writes that have varying data structures - > Question 9 Question 10 natively support the analysis of relationships between entities. A relational database must be used when Column family databases a dynamic schema is required. Document databases data will be stored as key/value pairs. Graph databases storing large images and videos. strong consistency guarantees are required. Key-value stores Question 11 Question 12 Relational data uses to enforce relationships between different tables. Creating closed caption (ext) for audio files is an example of analytics. collections descriptive predictive columns keys partitions prescriptive



The Tech

DP 900 - Exam Questions [Episode 1]

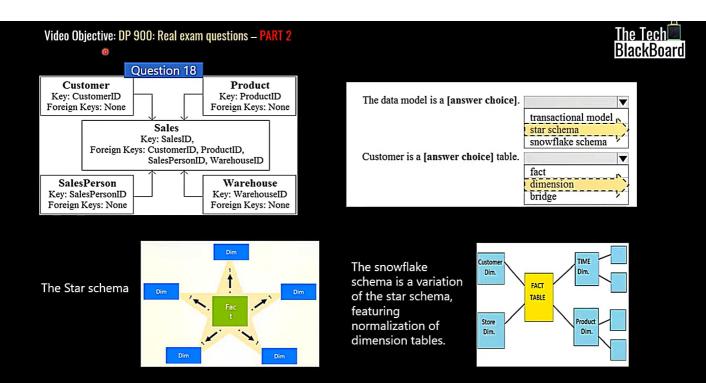
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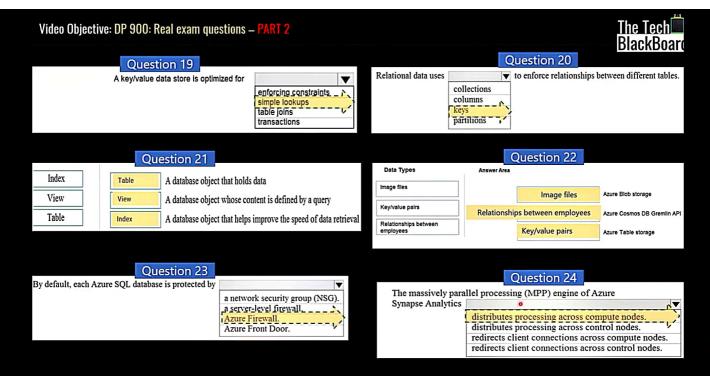




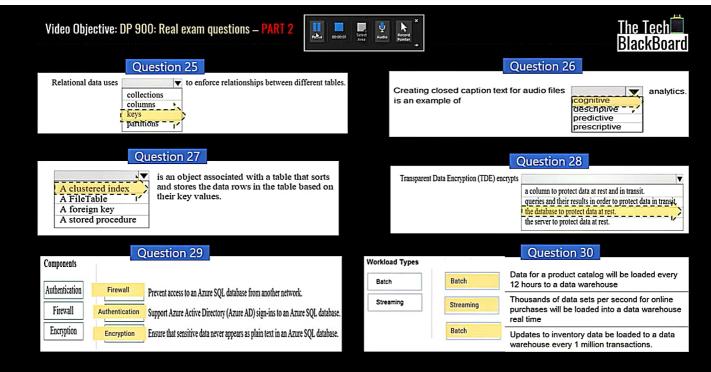
The Tech BlackBoard Video Objective: DP 900: Real exam questions - PART 2 Question 15 Question 14 Yes Statements Yes No Normalization involves eliminating relationships Batch processing can output data to a file store (0) 0 0 (0) between database tables. 0 Batch processing can output data to a relational database Normalizing a database reduces data redundancy. (0) 0 (0) 0 Batch processing can output data to a NoSQL database 10 0 Normalization improves data integrity. Question 16 Question 17 Statements Yes No Platform as a service (PaaS) database offerings in Azure Platform as a service (PaaS) database offerings in Azure require less setup 0 (0) 0 provide built-in high availability. and configuration effort than infrastructure as a service (laaS) database offerings. Platform as a service (PaaS) database offerings in Azure provide administrators 0 Platform as a service (PaaS) database offerings in Azure 0 with the ability to control and update the operating system version. provide configurable scaling options. All relation and non-relational platform as a service (PaaS) database offerings Platform as a service (PaaS) database offerings in Azure 0 (0) 0 in Azure can be paused to reduce costs. reduce the administrative overhead for managing hardware.



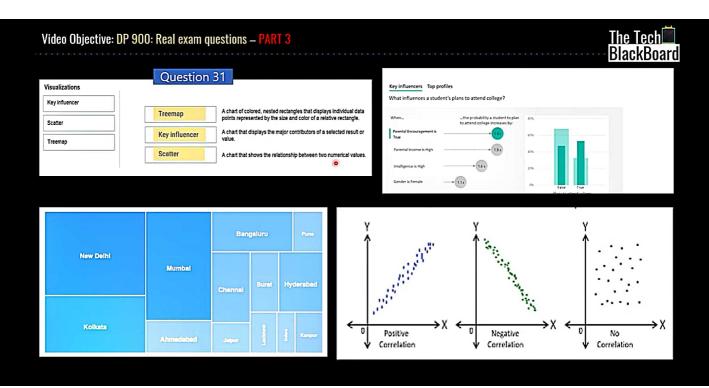






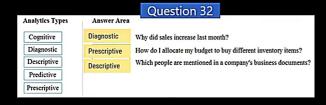




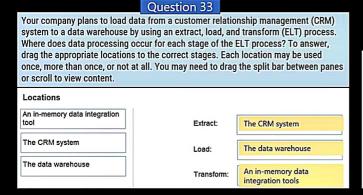


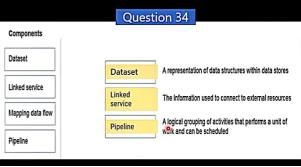




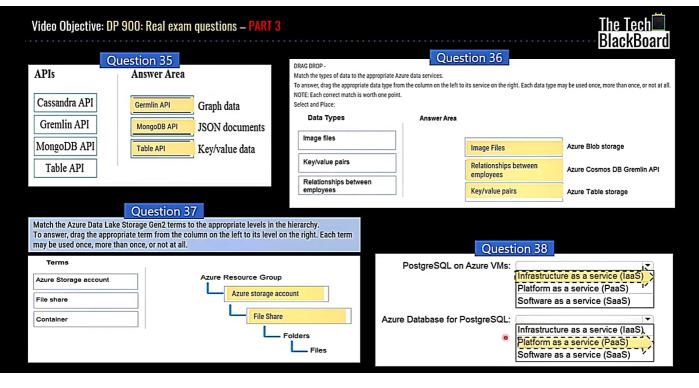
















Question 39

You need to create an Azure Storage account.

Data in the account must replicate outside the Azure region automatically. Which two types of replication can you use for the storage account? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

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

D. geo-redundant storage (GRS)

- •D. a table

Question 41

What are two characteristics of real-time data processing? Each correct answer presents a complete solution.

A. Data is processed periodically
B. Low latency is expected
C. High latency is acceptable
D. Data is processed as it is created

 A. REVOKE •B. DISABLE
•C. INSERT

Question 40

You have a SQL query that combines customer data and order data. The query includes calculated columns.

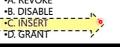
You need to create a database object that would allow other users to rerun the same SQL query.

What should you create?

•A. an index •B. a view •C. a scalar function



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







Question 43

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) authent
- •C. SQL authentication
- •D. certificate authentication

Question 44

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

Question 45

You have a transactional application that stores 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).

Question 46

You need to create an Azure resource to store data in Azure Table storage.

Which command should you run?

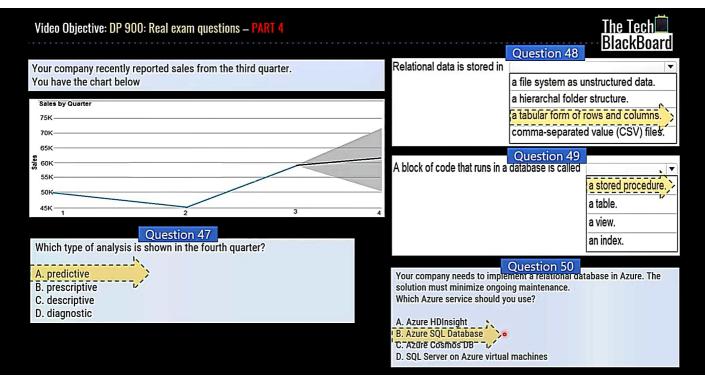
A. az storage share create

B. az storage account create

C. az cosmosdb_create ________

D. az storage container create









Question 51

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

A. built-in high availability

B. native support for cross-database queries and transactions

C. system-initiated automatic backups

D. support for encryption at rest

Question 53

You need to store data in Azure Blob Storage for ten years as per your company needs. The data is rarely accessed. Choose the storage tier best suited for this?

- a) Hot
- b) Cool
- Archive

Question 52

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 (OLAP)
 D. Online Transaction Processing (OLTP)

Question 54

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.







Question 55

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 apply Azure policies for multi-tenant deployments

- .C. to provision Azure subscriptions
- •D. to control which services and feature administrators and developers can deploy from the Azure portal

Question 57

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 (OLAP)
- D. Online Transaction Processing (OLTP)

Question 56

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 DB
- B. Azure HDInsight
- C. Azure SQL Database
- D. Azure Synapse Analytics 🔀

Question 58

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. access to the latest features

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





Question 59

Which Azure Data Factory component initiates the execution of a pipeline?

A. a control flow

B. a trigger

C. a parameter

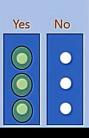
D. an activity

Question 60

Select Yes if statement is true otherwise, select No.

Statements:

- Azure SQL Database includes a fully managed backup service
- Azure SQL Database has built-in high availability
- · Azure SQL Database can use Azure Advanced Threat Protection (ATP)







Question 61

DRAG DROP 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 per day. The output must produce the following results.

SalesDate	AVG(SalesAmount)
4-Apr-20	\$2,000
5-Apr-20	\$1,170
6-Apr-20	S120

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.

Select and Place:

Values



Answer Area

Value SalesDate, AVG(SalesAmount) FROM Sales SalesDate Value ORDER BY SalesDate

SELECT SalesDate, AVG(SalesAmount) FROM Sales GROUP BY SalesDate ORDER BY SalesDate





Question 62

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

A. multi-master replication

B. Availability Zones

- C. the strong consistency level
- D. automatic failover

Question 64

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

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

D. supports a multi-master model

Question 63

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

Question 65

You need to store data by using Azure Table storage. What should you create first?

A. an Azure Cosmos DB instance

B. a storage account • >

- C. a blob container
- D. a table





Question 66

What is the primary purpose of a data warehouse?

A. to provide answers to complex queries that rely on data from multiple sources

- B. to provide transformation services between source and target data stores
- C. to provide read-only storage of relational and non-relational historical data
- D. to provide storage for transactional line-of-business (LOB) applications

Question 68

You need to recommend a data store service that meets the following requirements:

- Native SQL API access
- Configurable indexes
- What should you recommend?
 - A. Azure Files
 - B. Azure Blob storage
- C. Azure Table storage
- D. Azure Cosmos DB

Question 67

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?

Question 69

You have an application that runs on Windows and requires access to a mapped drive. Which Azure service should you use?

A. Azure Files

- B. Azure Blob storage
- C. Azure Cosmos DB
- D. Azure Table storage





Question 70

Your company needs to design a database that show how changes in network traffic in one area of a network affect network traffic in other areas of the network.

Which type of data store should you use?

b) Key/value c) Document d) columns

- d) columnar





Question 71

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) Graph
- b) Key/value
- c) Document
- d) Columnar

Column-family database is the low latency store ype.

Example

- Recommendations
- Personalization
- · Jelisul uau
- Messaging
- Social media analytics
- Web analytics
- Activity monitoring
- Weather and other time-series data

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.





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Question 73

What are three characteristics of an Online Transaction Processing (OLTP) workload? Choose three!

- a) Denormalized data
- b) Heavy writes and moderate read
- c) Light writes and heavy reads
- d) Schema on write
- e) Schema on read
- f) Normalized data

Question 74

Which two activities can be performed entirely by using the Microsoft Power BI service without relaying on Power BI desktop?

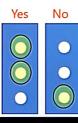
- a) A report and dashboard creation
- b) Report sharing and distribution
- c) Data modeling
- d) Data acquisition and preparation

Question 75

Select Yes if statement is true otherwise, select No.

Statements:

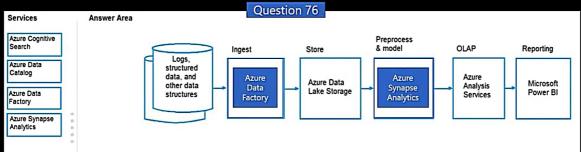
- Processing salary payments once a month is an example of a batch workload
- A wind turbine sends 50 sensor reading per second is streaming workload.
- A home electricity meter that sends readings once a day to an energy provider is an example of streaming workload.











Question 77

Azure Data Studio

Microsoft SQL Server Management Studio (SSMS)

Microsoft SQL Server Data Tools (SSDT)

Microsoft SQL Server Management Studio (SSMS)

Microsoft Visual Studio

A lightweight source code editor with an mssql extension that supports connections to SQL Server and a rich editing experience for T-SQL.

Microsoft Data Studio

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

Microsoft Visual Studio Code

Microsoft SQL Server Data Tools (SSDT)

A development tool for building Azure SQL databases, Microsoft SQL Server relational databases, SQL Server Analysis Services (SSAS) data models, SQL Server Integration Services (SSIS) packages, and SQL Server Reporting Services (SSRS) reports.





Question 78

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

Question 79

Complete the sentence:

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







