



# DP-201<sup>Q&As</sup>

Designing an Azure Data Solution

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### QUESTION 1

You need to design the solution for the government planning department. Which services should you include in the design?

- A. Azure SQL Data Warehouse and Elastic Queries
- B. Azure SQL Database and Polybase
- C. Azure SQL Data Warehouse and Polybase
- D. Azure SQL Database and Elastic Queries

Correct Answer: C

PolyBase is a new feature in SQL Server 2016. It is used to query relational and non-relational databases (NoSQL) such as CSV files.

Scenario: Traffic data must be made available to the Government Planning Department for the purpose of modeling changes to the highway system. The traffic data will be used in conjunction with other data such as information about events such as sporting events, weather conditions, and population statistics. External data used during the modeling is stored in on-premises SQL Server 2016 databases and CSV files stored in an Azure Data Lake Storage Gen2 storage account.

Reference: <https://www.sqlshack.com/sql-server-2016-polybase-tutorial/>

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### QUESTION 2

You need to design the disaster recovery solution for customer sales data analytics.

Which three actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Provision multiple Azure Databricks workspaces in separate Azure regions.
- B. Migrate users, notebooks, and cluster configurations from one workspace to another in the same region.
- C. Use zone redundant storage.
- D. Migrate users, notebooks, and cluster configurations from one region to another.
- E. Use Geo-redundant storage.
- F. Provision a second Azure Databricks workspace in the same region.

Correct Answer: ADE

Scenario: The analytics solution for customer sales data must be available during a regional outage.

To create your own regional disaster recovery topology for databricks, follow these requirements:

Provision multiple Azure Databricks workspaces in separate Azure regions



Use Geo-redundant storage.

Once the secondary region is created, you must migrate the users, user folders, notebooks, cluster configuration, jobs configuration, libraries, storage, init scripts, and reconfigure access control.

Note: Geo-redundant storage (GRS) is designed to provide at least 99.99999999999999% (16 9's) durability of objects over a given year by replicating your data to a secondary region that is hundreds of miles away from the primary region. If

your storage account has GRS enabled, then your data is durable even in the case of a complete regional outage or a disaster in which the primary region isn't recoverable.

References:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-grs>

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### QUESTION 3

You plan to use Azure SQL Database to support a line of business app.

You need to identify sensitive data that is stored in the database and monitor access to the data.

Which three actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Enable Data Discovery and Classification.
- B. Implement Transparent Data Encryption (TDE).
- C. Enable Auditing.
- D. Run Vulnerability Assessment.
- E. Use Advanced Threat Protection.

Correct Answer: CDE

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### QUESTION 4

You are designing a solution for a company. The solution will use model training for objective classification.

You need to design the solution.

What should you recommend?

- A. an Azure Cognitive Services application
- B. a Spark Streaming job
- C. interactive Spark queries
- D. Power BI models



E. a Spark application that uses Spark MLlib.

Correct Answer: E

Spark in SQL Server big data cluster enables AI and machine learning.

You can use Apache Spark MLlib to create a machine learning application to do simple predictive analysis on an open dataset.

MLlib is a core Spark library that provides many utilities useful for machine learning tasks, including utilities that are suitable for:

1.

Classification

2.

Regression

3.

Clustering

4.

Topic modeling

5.

Singular value decomposition (SVD) and principal component analysis (PCA)

6.

Hypothesis testing and calculating sample statistics

References: <https://docs.microsoft.com/en-us/azure/hdinsight/spark/apache-spark-machine-learning-mllib-ipynb>

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## QUESTION 5

You need to design a solution to meet the SQL Server storage requirements for CONT\_SQL3. Which type of disk should you recommend?

A. Standard SSD Managed Disk

B. Premium SSD Managed Disk

C. Ultra SSD Managed Disk

Correct Answer: C

CONT\_SQL3 requires an initial scale of 35000 IOPS. Ultra SSD Managed Disk Offerings



<b>Disk size (GiB)</b>	4	8	16	32	64	128	256	512	1,024-65,536 (in increments of 1 TiB)
<b>IOPS range</b>	100-1,200	100-2,400	100-4,800	100-9,600	100-19,200	100-38,400	100-76,800	100-153,600	100-160,000
<b>Throughput Cap (MBps)</b>	300	600	1,200	2,000	2,000	2,000	2,000	2,000	2,000

The following table provides a comparison of ultra solid-state-drives (SSD) (preview), premium SSD, standard SSD, and standard hard disk drives (HDD) for managed disks to help you decide what to use.

	<b>Ultra SSD (preview)</b>	<b>Premium SSD</b>	<b>Standard SSD</b>	<b>Standard HDD</b>
Disk type	SSD	SSD	SSD	HDD
Scenario	IO-intensive workloads such as SAP HANA, top tier databases (for example, SQL, Oracle), and other transaction-heavy workloads	Production and performance sensitive workloads	Web servers, lightly used enterprise applications and dev/test	Backup, non-critical, infrequent access
Disk size	65,536 gibibyte (GiB) (Preview)	32,767 GiB	32,767 GiB	32,767 GiB
Max throughput	2,000 MiB/s (Preview)	900 MiB/s	750 MiB/s	500 MiB/s
Max IOPS	160,000 (Preview)	20,000	6,000	2,000

References: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disks-types>

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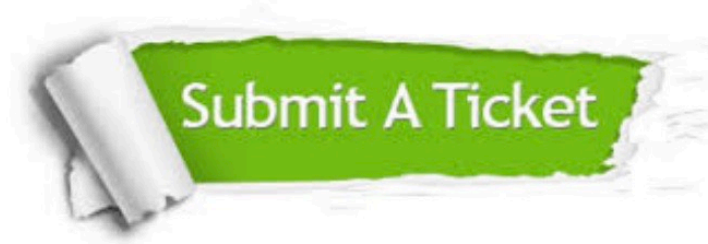
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