



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

Designing an Azure Data Solution

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### QUESTION 1

#### HOTSPOT

A company plans to use Azure SQL Database to support a line of business applications. The application will manage sensitive employee data.

The solution must meet the following requirements:

1. Encryption must be performed by the application.
2. Only the client application must have access keys for encrypting and decrypting data.
3. Data must never appear as plain text in the database.
4. The strongest possible encryption method must be used.
5. Searching must be possible on selected data.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

#### Answer Area

Data type	Encryption method
Searchable data	<div data-bbox="555 1279 1307 1344">▼</div> <ul style="list-style-type: none"><li>Always Encrypted with randomized encryption</li><li>Always Encrypted with deterministic encryption</li><li>CREATE SYMMETRIC KEY statement</li><li>CREATE CERTIFICATE statement</li></ul>
Non-searchable data	<div data-bbox="555 1568 1307 1632">▼</div> <ul style="list-style-type: none"><li>Always Encrypted with randomized encryption</li><li>Always Encrypted with deterministic encryption</li><li>CREATE SYMMETRIC KEY statement</li><li>CREATE CERTIFICATE statement</li></ul>

Correct Answer:



## Answer Area

Data type	Encryption method
Searchable data	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #e0e0e0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span></span> <span>▼</span> </div> <div style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 2px;"> <span style="background-color: #e0e0e0; display: inline-block; width: 100%; height: 1em;"></span> </div> <div style="border-bottom: 1px solid black; padding: 2px;"> <span style="background-color: #e0e0e0; display: inline-block; width: 100%; height: 1em;"></span> </div> <div style="border-bottom: 1px solid black; padding: 2px;"> <span style="background-color: #e0e0e0; display: inline-block; width: 100%; height: 1em;"></span> </div> <div style="padding: 2px;"> <span style="background-color: #e0e0e0; display: inline-block; width: 100%; height: 1em;"></span> </div> </div>
Non-searchable data	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #e0e0e0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> <span></span> <span>▼</span> </div> <div style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 2px;"> <span style="background-color: #e0e0e0; display: inline-block; width: 100%; height: 1em;"></span> </div> <div style="border-bottom: 1px solid black; padding: 2px;"> <span style="background-color: #e0e0e0; display: inline-block; width: 100%; height: 1em;"></span> </div> <div style="border-bottom: 1px solid black; padding: 2px;"> <span style="background-color: #e0e0e0; display: inline-block; width: 100%; height: 1em;"></span> </div> <div style="padding: 2px;"> <span style="background-color: #e0e0e0; display: inline-block; width: 100%; height: 1em;"></span> </div> </div>

Explanation:

Box 1: Always Encrypted with deterministic encryption

Deterministic encryption always generates the same encrypted value for any given plain text value. Using deterministic encryption allows point lookups, equality joins, grouping and indexing on encrypted columns. However, it may also allow

unauthorized users to guess information about encrypted values by examining patterns in the encrypted column, especially if there is a small set of possible encrypted values, such as True/False, or North/South/East/West region.

Deterministic encryption must use a column collation with a binary2 sort order for character columns.

Box 2: Always Encrypted with Randomized encryption

Randomized encryption uses a method that encrypts data in a less predictable manner. Randomized encryption is more secure, but prevents searching, grouping, indexing, and joining on encrypted columns.

Note: With Always Encrypted the Database Engine never operates on plaintext data stored in encrypted columns, but it still supports some queries on encrypted data, depending on the encryption type for the column. Always Encrypted

supports two types of encryption: randomized encryption and deterministic encryption.

Use deterministic encryption for columns that will be used as search or grouping parameters, for example a government ID number. Use randomized encryption, for data such as confidential investigation comments, which are not grouped

with other records and are not used to join tables.

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine>



## QUESTION 2

You need to recommend an Azure SQL Database pricing tier for Planning Assistance. Which pricing tier should you recommend?

- A. Business critical Azure SQL Database single database
- B. General purpose Azure SQL Database Managed Instance
- C. Business critical Azure SQL Database Managed Instance
- D. General purpose Azure SQL Database single database

Correct Answer: B

Azure resource costs must be minimized where possible.

Data used for Planning Assistance must be stored in a sharded Azure SQL Database.

The SLA for Planning Assistance is 70 percent, and multiday outages are permitted.

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## QUESTION 3

You need to design the storage for the telemetry capture system. What storage solution should you use in the design?

- A. Azure SQL Data Warehouse
- B. Azure Databricks
- C. Azure Cosmos DB

Correct Answer: C

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## QUESTION 4

You need to recommend a solution to quickly identify all the columns in Health Review that contain sensitive health data. What should you include in the recommendation?

- A. classifications
- B. data masking
- C. SQL Server auditing
- D. Azure tags

Correct Answer: A

Data Discovery and Classification introduces a set of advanced capabilities aimed at protecting data and not just the

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data warehouse itself. Classification/Labeling

**QUESTION 5**

You design data engineering solutions for a company that has locations around the world. You plan to deploy a large set of data to Azure Cosmos DB.

The data must be accessible from all company locations.

You need to recommend a strategy for deploying the data that minimizes latency for data read operations and minimizes costs.

What should you recommend?

- A. Use a single Azure Cosmos DB account. Enable multi-region writes.
- B. Use a single Azure Cosmos DB account Configure data replication.
- C. Use multiple Azure Cosmos DB accounts. For each account, configure the location to the closest Azure datacenter.
- D. Use a single Azure Cosmos DB account. Enable geo-redundancy.
- E. Use multiple Azure Cosmos DB accounts. Enable multi-region writes.

Correct Answer: A

With Azure Cosmos DB, you can add or remove the regions associated with your account at any time.

Multi-region accounts configured with multiple-write regions will be highly available for both writes and reads. Regional failovers are instantaneous and don't require any changes from the application.

Operation type	Single region	Multi-region (single region writes)	Multi-region (multi-region writes)
Writes	99.99	99.99	99.999
Reads	99.99	99.999	99.999

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

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