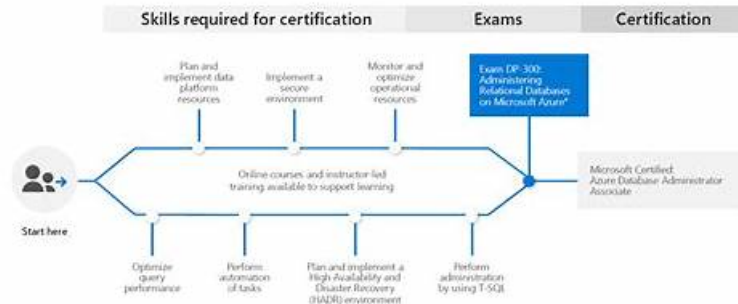


# Microsoft - DP-300 - Authoritative New Administering Relational Databases on Microsoft Azure Exam Preparation

## Learning path for Azure Database Administrator Associate



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## Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q251-Q256):

### NEW QUESTION # 251

You have an Azure SQL database.

You need to identify whether a delayed query execution is associated to a RESOURCE wait.

How should you complete the Transact-SQL statement? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
SELECT wait_type  
       wait_type  
       context_info  
       wait_resource  
       SUM(wait_time) AS total_wait_time_ms  
FROM sys.dm_exec_requests AS dev1  
JOIN sys.dm_exec_sessions AS sess  
     ON dev1.session_id = sess.session_id  
WHERE is_user_process = 1  
GROUP BY TARGETS  
ORDER BY SUM(wait_time) DESC;
```

Answer:

Explanation:

Answer Area

```
SELECT wait_type  
       wait_type  
       context_info  
       wait_resource  
       SUM(wait_time) AS total_wait_time_ms  
FROM sys.dm_exec_requests AS dev1  
JOIN sys.dm_exec_sessions AS sess  
     ON dev1.session_id = sess.session_id  
WHERE is_user_process = 1  
GROUP BY TARGETS  
ORDER BY SUM(wait_time) DESC;
```

Explanation

Answer Area

```
SELECT wait_type  
       SUM(wait_time) AS total_wait_time_ms  
FROM sys.dm_exec_requests AS dev1  
JOIN sys.dm_exec_sessions AS sess  
     ON dev1.session_id = sess.session_id  
WHERE is_user_process = 1  
GROUP BY TARGETS  
ORDER BY SUM(wait_time) DESC;
```

### NEW QUESTION # 252

You need to design an analytical storage solution for the transactional data. The solution must meet the sales transaction dataset requirements.

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

NOTE: Each correct selection is worth one point.

Table type to store retail store data:

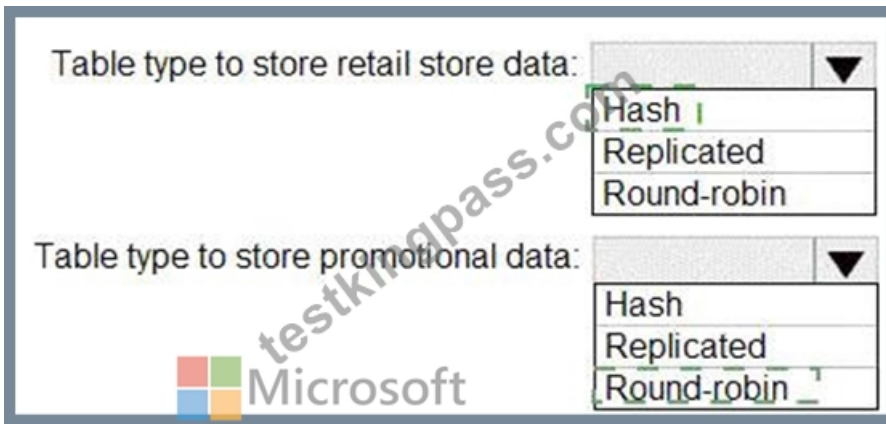
- Hash
- Replicated
- Round-robin

Table type to store promotional data:

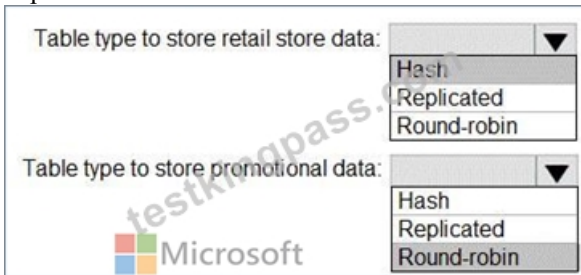
- Hash
- Replicated
- Round-robin

Answer:

Explanation:



Explanation:



Box 1: Hash

Scenario:

Ensure that queries joining and filtering sales transaction records based on product ID complete as quickly as possible. A hash distributed table can deliver the highest query performance for joins and aggregations on large tables.

Box 2: Round-robin

Scenario:

You plan to create a promotional table that will contain a promotion ID. The promotion ID will be associated to a specific product. The product will be identified by a product ID. The table will be approximately 5 GB.

A round-robin table is the most straightforward table to create and delivers fast performance when used as a staging table for loads.

These are some scenarios where you should choose Round robin distribution:

When you cannot identify a single key to distribute your data.

If your data doesn't frequently join with data from other tables.

When there are no obvious keys to join.

Reference:

<https://rajanieshkaushikk.com/2020/09/09/how-to-choose-right-data-distribution-strategy-for-azure-synapse/>

### NEW QUESTION # 253

You deploy a database to an Azure SQL Database managed instance.

You need to prevent read queries from blocking queries that are trying to write to the database.

Which database option should set?

- A. READ\_COMMITTED\_SNAPSHOT to ON
- B. Delayed Durability to Forced
- C. PARAMETERIZATION to SIMPLE
- D. PARAMETERIZATION to FORCED

**Answer: A**

Explanation:

In SQL Server, you can also minimize locking contention while protecting transactions from dirty reads of uncommitted data modifications using either:

\* The READ COMMITTED isolation level with the READ\_COMMITTED\_SNAPSHOT database option set to ON.

\* The SNAPSHOT isolation level.

If READ\_COMMITTED\_SNAPSHOT is set to ON (the default on SQL Azure Database), the Database Engine uses row versioning to present each statement with a transactionally consistent snapshot of the data as it existed at the start of the statement.

Locks are not used to protect the data from updates by other transactions.

Incorrect Answers:

A: When the PARAMETERIZATION database option is set to SIMPLE, the SQL Server query optimizer may choose to parameterize the queries. This means that any literal values that are contained in a query are substituted with parameters. This process is referred to as simple parameterization. When SIMPLE parameterization is in effect, you cannot control which queries are parameterized and which queries are not.

B: You can specify that all queries in a database be parameterized by setting the PARAMETERIZATION database option to FORCED. This process is referred to as forced parameterization.

C: Delayed transaction durability is accomplished using asynchronous log writes to disk. Transaction log records are kept in a buffer and written to disk when the buffer fills or a buffer flushing event takes place.

Delayed transaction durability reduces both latency and contention within the system.

Some of the cases in which you could benefit from using delayed transaction durability are:

- \* You can tolerate some data loss.
- \* You are experiencing a bottleneck on transaction log writes.
- \* Your workloads have a high contention rate.

Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/set-transaction-isolation-level-transact-sql>

#### NEW QUESTION # 254

You have an Azure Synapse Analytics dedicated SQL pool named Pool1 and a database named DB1. DB1 contains a fact table named Table.

You need to identify the extent of the data skew in Table1.

What should you do in Synapse Studio?

- A. Connect to Pool1 and query `sys.dm_pdw_nodes_db_partition_stats`.
- **B. Connect to the built-in pool and query `sys.dm_pdw_nodes_db_partition_stats`.**
- C. Connect to Pool1 and run DBCC CHECKALLOC.
- D. Connect to the built-in pool and run DBCC CHECKALLOC.

**Answer: B**

Explanation:

Explanation

Use `sys.dm_pdw_nodes_db_partition_stats` to analyze any skewness in the data.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/cheat-sheet>

#### NEW QUESTION # 255

Hotspot Question

You have an Azure subscription.

You plan to migrate 10 on-premises Microsoft SQL Server instances to Azure.

You need to ensure that the migrated environment can be managed by using multiserver administration and supports master/target (MSX/TSX) jobs.

The solution must minimize administrative effort.

Which SQL deployment options should you select as the master server (MSX) and the target server (TSX)? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

MSX:

	▼
SQL database	
SQL managed instances	
SQL virtual machines	

TSX:

	▼
SQL database	
SQL managed instances	
SQL virtual machines	

Answer:

Explanation:

## Answer Area

MSX:

	▼
SQL database	
SQL managed instances	
SQL virtual machines	

TSX:

	▼
SQL database	
SQL managed instances	
SQL virtual machines	

## NEW QUESTION # 256

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