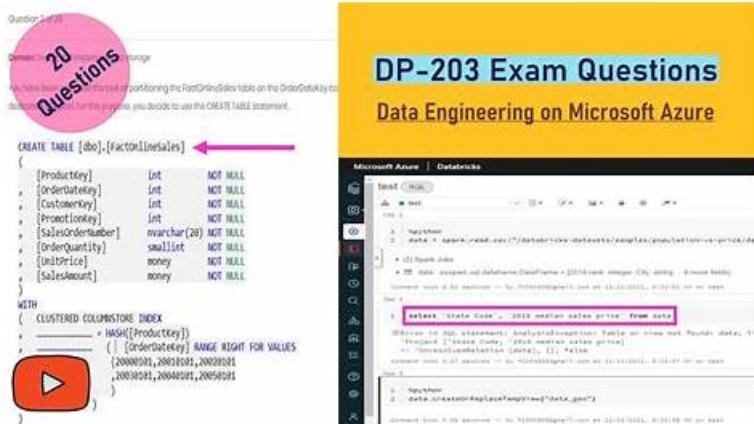


# DP-203 Knowledge Points - Question DP-203 Explanations



The image shows a Microsoft Azure Data Studio interface on the left and a Microsoft Azure portal interface on the right. The Data Studio interface displays a T-SQL script for creating a table named 'factOrderLines'. The portal interface shows a table named 'OrderLines' with columns: OrderLineKey, OrderKey, CustomerKey, PromotionKey, SalesOrderNumber, OrderQuantity, UnitPrice, and SalesAmount. A pink circle with the number '20' is overlaid on the top left of the Data Studio interface, and a pink arrow points from this circle to the 'CREATE TABLE' command in the script.

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## Microsoft Data Engineering on Microsoft Azure Sample Questions (Q179-Q184):

### NEW QUESTION # 179

You have an on-premises data warehouse that includes the following fact tables. Both tables have the following columns: DateKey, ProductKey, RegionKey. There are 120 unique product keys and 65 unique region keys.

□ Queries that use the data warehouse take a long time to complete.

You plan to migrate the solution to use Azure Synapse Analytics. You need to ensure that the Azure-based solution optimizes query performance and minimizes processing skew.

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

NOTE: Each correct selection is worth one point

**Answer:**

Explanation:

Explanation

Box 1: Hash-distributed

Box 2: ProductKey

ProductKey is used extensively in joins.

Hash-distributed tables improve query performance on large fact tables.

Box 3: Round-robin

Box 4: RegionKey

Round-robin tables are useful for improving loading speed.

Consider using the round-robin distribution for your table in the following scenarios:

\* When getting started as a simple starting point since it is the default

\* If there is no obvious joining key

\* If there is not good candidate column for hash distributing the table

\* If the table does not share a common join key with other tables

\* If the join is less significant than other joins in the query

\* When the table is a temporary staging table

Note: A distributed table appears as a single table, but the rows are actually stored across 60 distributions. The rows are distributed with a hash or round-robin algorithm.

Reference:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-tables-distribute>

**NEW QUESTION # 180**

You are creating dimensions for a data warehouse in an Azure Synapse Analytics dedicated SQL pool.

You create a table by using the Transact-SQL statement shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation

Box 1: Type 2

A Type 2 SCD supports versioning of dimension members. Often the source system doesn't store versions, so the data warehouse load process detects and manages changes in a dimension table. In this case, the dimension table must use a surrogate key to provide a unique reference to a version of the dimension member. It also includes columns that define the date range validity of the version (for example, StartDate and EndDate) and possibly a flag column (for example, IsCurrent) to easily filter by current dimension members.

Reference:

<https://docs.microsoft.com/en-us/learn/modules/populate-slowly-changing-dimensions-azure-synapse-analytics-p>

**NEW QUESTION # 181**

You have an Azure Synapse Analytics serverless SQL pool, an Azure Synapse Analytics dedicated SQL pool, an Apache Spark pool, and an Azure Data Lake Storage Gen2 account.

You need to create a table in a lake database. The table must be available to both the serverless SQL pool and the Spark pool.

Where should you create the table, and Which file format should you use for data in the table? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation  
The dedicated SQL pool  
Apache Parquet

### NEW QUESTION # 182

You need to create a partitioned table in an Azure Synapse Analytics dedicated SQL pool.

How should you complete the Transact-SQL statement? 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.

#### Answer:

Explanation:

Explanation

Box 1: DISTRIBUTION

Table distribution options include DISTRIBUTION = HASH ( distribution\_column\_name ), assigns each row to one distribution by hashing the value stored in distribution\_column\_name.

Box 2: PARTITION

Table partition options. Syntax:

PARTITION ( partition\_column\_name RANGE [ LEFT | RIGHT ] FOR VALUES ( [ boundary\_value [,...n] ] ) ) Reference:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-table-azure-sql-data-warehouse?>

### NEW QUESTION # 183

You have an Azure Synapse Analytics dedicated SQL pool.

You run PDW\_SHOWSPACEUSED(dbo,FactInternetSales'); and get the results shown in the following table.

Which statement accurately describes the dbo,FactInternetSales table?

- A. All distribution contain data.
- B. The table uses round-robin distribution.
- C. The table contains less than 1,000 rows.
- D. **The table is skewed.**

#### Answer: D

Explanation:

Explanation

Data skew means the data is not distributed evenly across the distributions.

Reference:

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

### NEW QUESTION # 184

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**Question DP-203 Explanations:** [https://www.real4test.com/DP-203\\_real-exam.html](https://www.real4test.com/DP-203_real-exam.html)

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