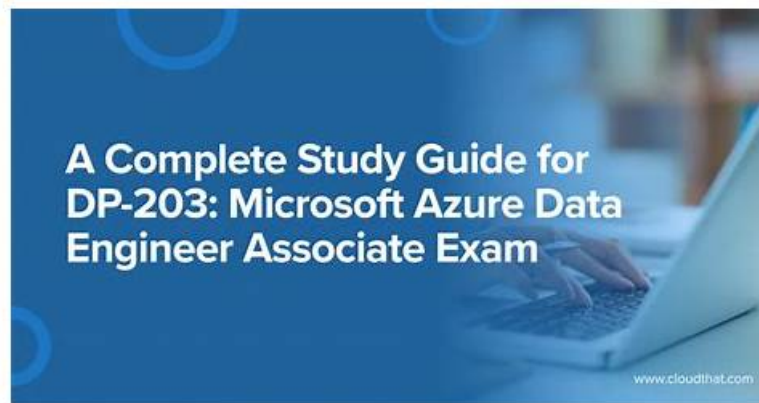


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## Latest DP-203 Exam Topics & DP-203 New Dumps Sheet

It is generally acknowledged that candidates who earn the Data Engineering on Microsoft Azure (DP-203) certification ultimately get high-paying jobs in the tech market. Success in the Data Engineering on Microsoft Azure (DP-203) exam not only validates your skills but also helps you get promotions. To pass the Data Engineering on Microsoft Azure test in a short time, you must prepare with DP-203 Exam Questions that are real and updated. Without studying with DP-203 actual questions, candidates fail and waste their time and money.

## Microsoft Data Engineering on Microsoft Azure Sample Questions (Q122-Q127):

### NEW QUESTION # 122

You are building a database in an Azure Synapse Analytics serverless SQL pool. You have data stored in Parquet files in an Azure Data Lake Storage Gen2 container. Records are structured as shown in the following sample.

```
{
  "id": 123,
  "address_housenumber": "19c",
  "address_line": "Memory Lane",
  "applicant1_name": "Jane",
  "applicant2_name": "Dev"
}
```

The records contain two applicants at most.

You need to build a table that includes only the address fields.

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


NOTE: Each correct selection is worth one point.

**Answer Area**

▼ applications

CREATE EXTERNAL TABLE  
CREATE TABLE  
CREATE VIEW

```
WITH (
    LOCATION = 'applications/',
    DATA_SOURCE = applications_ds,
    FILE_FORMAT = applications_file_format
)
AS
SELECT id, [address_housenumber] as addresshousenumber, [address_line1] as addressline1
FROM
    (BULK 'https://contosol.dfs.core.windows.net/applications/year=*/*.parquet',
    CROSS APPLY
    OPENJSON
    OPENROWSET
    FORMAT='PARQUET') AS [r]
GO
```

 Microsoft

**Answer:**


**Explanation:**

**Answer Area**

▼ applications

CREATE EXTERNAL TABLE  
CREATE TABLE  
CREATE VIEW

```
WITH (
    LOCATION = 'applications/',
    DATA_SOURCE = applications_ds,
    FILE_FORMAT = applications_file_format
)
AS
SELECT id, [address_housenumber] as addresshousenumber, [address_line1] as addressline1
FROM
    (BULK 'https://contosol.dfs.core.windows.net/applications/year=*/*.parquet',
    CROSS APPLY
    OPENJSON
    OPENROWSET
    FORMAT='PARQUET') AS [r]
GO
```

 Microsoft

**Explanation**

**Box 1: CREATE EXTERNAL TABLE**

An external table points to data located in Hadoop, Azure Storage blob, or Azure Data Lake Storage. External tables are used to read data from files or write data to files in Azure Storage. With Synapse SQL, you can use external tables to read external data using dedicated SQL pool or serverless SQL pool.

**Syntax:**

CREATE EXTERNAL TABLE { database\_name.schema\_name.table\_name | schema\_name.table\_name | table\_name } ( <column\_definition> [ ,...n ] ) WITH ( LOCATION = 'folder\_or\_filepath', DATA\_SOURCE = external\_data\_source\_name, FILE\_FORMAT = external\_file\_format\_name )

**Box 2. OPENROWSET** When using serverless SQL pool, CETAS is used to create an external table and export query results to Azure Storage Blob or Azure Data Lake Storage Gen2.

**Example:**

AS

SELECT decennialTime, stateName, SUM(population) AS population

FROM

OPENROWSET(BULK

'https://azureopendatastorage.blob.core.windows.net/censusdatacontainer/release/us\_population\_county/year=\*/\*'

FORMAT='PARQUET') AS [r] GROUP BY decennialTime, stateName GO

Reference:  
<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables>

### NEW QUESTION # 123

You are performing exploratory analysis of the bus fare data in an Azure Data Lake Storage Gen2 account by using an Azure Synapse Analytics serverless SQL pool.

You execute the Transact-SQL query shown in the following exhibit.

```
SELECT
    payment_type,
    SUM(fare_amount) AS fare_total
FROM OPENROWSET(
    BULK 'csv/busfare/tripdata_2020*.csv',
    DATA_SOURCE = 'BusData',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIRSTROW = 2
)
WITH (
    payment_type INT 10,
    fare_amount FLOAT 11
) AS nyc
GROUP BY payment_type
ORDER BY payment_type;
```

What do the query results include?

- A. Only CSV files in the tripdata\_2020 subfolder.
- B. All CSV files that have file names that contain "tripdata\_2020".
- C. Only CSV that have file names that beginning with "tripdata\_2020".
- D. All files that have file names that beginning with "tripdata\_2020".

**Answer: C**

### NEW QUESTION # 124

You have an Azure data solution that contains an enterprise data warehouse in Azure Synapse Analytics named DW1.

Several users execute ad hoc queries to DW1 concurrently.

You regularly perform automated data loads to DW1.

You need to ensure that the automated data loads have enough memory available to complete quickly and successfully when the adhoc queries run.

What should you do?

- A. Assign a larger resource class to the automated data load queries.
- B. Create sampled statistics for every column in each table of DW1.
- C. Hash distribute the large fact tables in DW1 before performing the automated data loads.
- D. Assign a smaller resource class to the automated data load queries.

**Answer: A**

Explanation:

The performance capacity of a query is determined by the user's resource class. Resource classes are pre-determined resource limits in Synapse SQL pool that govern compute resources and concurrency for query execution.

Resource classes can help you configure resources for your queries by setting limits on the number of queries that run concurrently and on the compute-resources assigned to each query. There's a trade-off between memory and concurrency.

Smaller resource classes reduce the maximum memory per query, but increase concurrency.

Larger resource classes increase the maximum memory per query, but reduce concurrency.

Reference:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/resource-classes-for-workload-man>

### NEW QUESTION # 125

You have an Azure subscription that is linked to a hybrid Azure Active Directory (Azure AD) tenant. The subscription contains an

Azure Synapse Analytics SQL pool named Pool1.

You need to recommend an authentication solution for Pool1. The solution must support multi-factor authentication (MFA) and database-level authentication.

Which authentication solution or solutions should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

MFA:  


- Azure AD authentication
- Microsoft SQL Server authentication
- Passwordless authentication
- Windows authentication

Database-level authentication: 


- Application roles
- Contained database users
- Database roles
- Microsoft SQL Server logins

Answer:

Explanation:

MFA:  

- Azure AD authentication
- Microsoft SQL Server authentication
- Passwordless authentication
- Windows authentication

Database-level authentication: 

- Application roles
- Contained database users
- Database roles
- Microsoft SQL Server logins

Reference:

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

### NEW QUESTION # 126

You are designing a slowly changing dimension (SCD) for supplier data in an Azure Synapse Analytics dedicated SQL pool.

You plan to keep a record of changes to the available fields.

The supplier data contains the following columns.

Name	Description
SupplierSystemID	Unique supplier ID in an enterprise resource planning (ERP) system
SupplierName	Name of the supplier company
SupplierAddress1	Address of the supplier company
SupplierAddress2	Second address line of the supplier company
SupplierCity	City of the supplier company
SupplierStateProvince	State or province of the supplier company
SupplierCountry	Country of the supplier company
SupplierPostalCode	Postal code of the supplier company
SupplierDescription	Free-text description of the supplier company
SupplierCategory	Category of goods provided by the supplier company

Which three additional columns should you add to the data to create a Type 2 SCD? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. effective end date
- B. effective start date



- C. surrogate primary key
- **D. foreign key**
- **E. business key**
- F. last modified date

**Answer: B,D,E**

Explanation:

Reference:

<https://docs.microsoft.com/en-us/sql/integration-services/data-flow/transformations/slowly-changing-dimension-transformation>

## NEW QUESTION # 127

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