



DP-500^{Q&As}

Designing and Implementing Enterprise-Scale Analytics Solutions Using
Microsoft Azure and Microsoft Power BI

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QUESTION 1

You have an Azure Synapse Analytics dataset that contains data about jet engine performance. You need to score the dataset to identify the likelihood of an engine failure. Which function should you use in the query?

- A. PIVOT
- B. GROUPING
- C. PREDICT
- D. CAST

Correct Answer: C

QUESTION 2

You have a file named File1.txt that has the following characteristics: A header row Tab delimited values UNIX-style line endings

You need to read File1.txt by using an Azure Synapse Analytics serverless SQL pool.

Which query should you execute?

☐ A.

```
SELECT *
FROM OPENROWSET(
    BULK 'file1.txt',
    DATA_SOURCE = 'Sql1',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIELDTERMINATOR = '\t',
    ROWTERMINATOR = '0x0a',
    FIRSTROW = 2
)
```

☐ B.

```
SELECT *
FROM OPENROWSET(
    BULK 'file1.txt',
    DATA_SOURCE = 'Sql1',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIELDTERMINATOR = ',',
    ROWTERMINATOR = '\n',
    FIRSTROW = 2
)
```

☐ C.

```
SELECT *
FROM OPENROWSET(
    BULK 'file1.txt',
    DATA_SOURCE = 'Sql1',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIELDTERMINATOR = ',',
    ROWTERMINATOR = '0x0a',
    FIRSTROW = 2
)
```

☐ D.

```
SELECT *
FROM OPENROWSET(
    BULK 'file1.txt',
    DATA_SOURCE = 'Sql1',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIELDTERMINATOR = '\t',
    ROWTERMINATOR = '0x0a',
    FIRSTROW = 1
)
```



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 3

DRAG DROP

You have an Azure Synapse Analytics serverless SQL pool.

You need to return a list of files and the number of rows in each file.

How should you complete the Transact-SQL statement? To answer, drag the appropriate values to the 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.

Select and Place:

Values

- APPROX_COUNT_DISTINCT
- COUNT_BIG
- OPENDATASOURCE
- OPENJSON
- OPENQUERY
- OPENROWSET

Answer Area

```
SELECT
    asa.filename() AS [filename]
, [ ] (*) AS [rows]
FROM
    [ ]
BULK 'parquet/production/year=2017/month=9/*.parquet',
DATA_SOURCE = 'DataLake1',
FORMAT= 'PARQUET'
) asa
GROUP BY [filename]
```

Correct Answer:



Values

COUNT_BIG

OPENDATASOURCE

OPENJSON

OPENQUERY

Answer Area

```
SELECT
    asa.filename() AS [filename]
    , APPROX_COUNT_DISTINCT (*) AS [rows]
FROM
    OPENROWSET
    BULK 'parquet/production/year=2017/month=9/*.parquet',
    DATA_SOURCE = 'DataLake1',
    FORMAT= 'PARQUET'
) asa
GROUP BY [filename]
```

Box 1: APPROX_COUNT_DISTINCT

The APPROX_COUNT_DISTINCT function returns the approximate number of unique non- null values in a group.

Box 2: OPENROWSET

OPENROWSET function in Synapse SQL reads the content of the file(s) from a data source. The data source is an Azure storage account and it can be explicitly referenced in the OPENROWSET function or can be dynamically inferred from

URL of the files that you want to read. The OPENROWSET function can optionally contain a DATA_SOURCE parameter to specify the data source that contains files.

The OPENROWSET function can be referenced in the FROM clause of a query as if it were a table name OPENROWSET. It supports bulk operations through a built-in BULK provider that enables data from a file to be read and returned as a

rowset.

QUESTION 4

You are running a diagnostic against a query as shown in the following exhibit.



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- A. All the query steps are folding.
- B. Elevated permissions are being used to query records.
- C. The query is timing out.
- D. Some query steps are folding.

Correct Answer: A

QUESTION 5

You plan to modify a Power BI dataset.

You open the Impact analysis panel for the dataset and select Notify contacts.

Which contacts will be notified when you use the Notify contacts feature?

- A. any users that accessed a report that uses the dataset within the last 30 days
- B. the workspace admins of any workspace that uses the dataset
- C. the Power BI admins
- D. all the workspace members of any workspace that uses the dataset

Correct Answer: B

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