

DP-500^{Q&As}

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

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QUESTION 1

HOTSPOT

You have a Power BI dataset that has the query dependencies 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.

Hot Area:

When the dataset refreshes, the orders query will be executed [answer choice] times.

0	
1	
3	

[Answer choice] will reduce data refresh times for this model.

Duplicating the Orders query instead of referencing the query
Replacing the Orders query with a dataflow
Using Table Buffer in the Orders query

Correct Answer:

When the dataset refreshes, the orders query will be executed [answer choice] times.

0	
1	
3	

[Answer choice] will reduce data refresh times for this model.

Duplicating the Orders query instead of referencing the query
Replacing the Orders query with a dataflow
Using Table Buffer in the Orders query

QUESTION 2

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode.

A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline. An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows. When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. Turn off auto refresh when publishing the dataset changes to the Power BI service.
- B. In the dataset, change the fact table from an import table to a hybrid table.
- C. Enable the large dataset storage format for workspace.
- D. Create a dataset parameter to reduce the fact table row count in the development and test pipelines.

Correct Answer: B

Hybrid tables Hybrid tables are tables with incremental refresh that can have both import and direct query partitions. During a clean deployment, both the refresh policy and the hybrid table partitions are copied. When deploying to a pipeline stage that already has hybrid table partitions, only the refresh policy is copied. To update the partitions, refresh the table.

Refreshes are faster - Only the most recent data that has changed needs to be refreshed.

Reference: <https://docs.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines- best-practices>

QUESTION 3

You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. The files contain more than 40 million rows of UTF-8-encoded business names, survey names, and participant counts. The database is configured to use the default collation.

The queries use open row set and infer the schema shown in the following table.

name	system_type_name	max_length
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend defining a data source and view for the Parquet files. You recommend updating the query to use the view.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

QUESTION 4

From Power Query Editor, you profile the data shown in the following exhibit.

	IoT GUID	IoT DateTime	lot ID
	<ul style="list-style-type: none">Valid 100%Error 0%Empty 0%	<ul style="list-style-type: none">Valid 100%Error 0%Empty 0%	<ul style="list-style-type: none">Valid 100%Error 0%Empty 0%
1	48196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:15	100001000
2	49196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:26	100001001
3	0300C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001002
4	0400C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001003
5	0500C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001004
6	0600C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001005

The IoT GUID and IoT ID columns are unique to each row in the query.

You need to analyze IoT events by the hour and day of the year. The solution must improve dataset performance.

Solution: You remove the IoT GUID column and retain the IoT ID column.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

QUESTION 5

You need to recommend a solution for the customer workspaces to support the planned changes.

Which two configurations should you include in the recommendation? Each correct answer presents part of the

solution.

NOTE: Each correct selection is worth one point.

- A. Set Use datasets across workspaces to Enabled
- B. Publish the financial data to the web.
- C. Grant the Build permission for the financial data to each customer.
- D. Configure the FinData workspace to use a Power BI Premium capacity.

Correct Answer: AC

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