DP-500^{Q&As}

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

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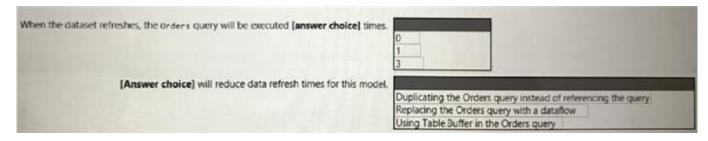
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QUESTION 1

HOTSPOT

You have a Power BI dataset that has the query dependencies shown in the following exhibit.
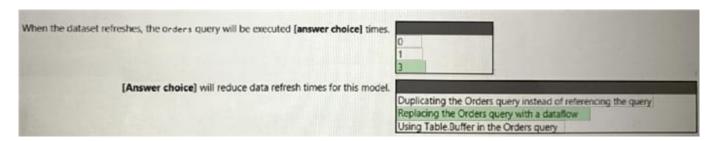

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

QUESTION 2

You need to recommend a solution for the analysts in the Finance and Accounting business unit to mitigate the increase in maintenance of their assets in the Power BI tenant.

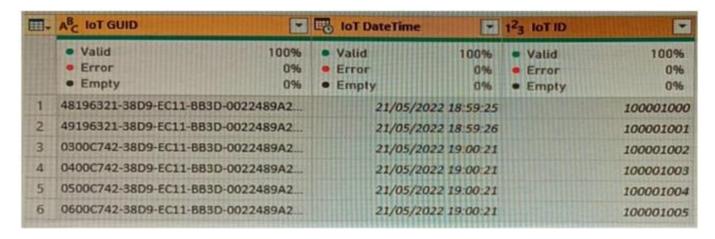Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Use Microsoft Purview to search for datasets that contain the relevant data.

B. Perform impact analysis on the relevant data source.

C. Create a live connection to a Power BI dataset.

D. Create a Power BI template app.

Correct Answer: BD

QUESTION 3

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

▦▾	A^B_C IoT GUID	▾	🕒 IoT DateTime	▾	1²₃ IoT ID	▾
	● Valid	100%	● Valid	100%	● Valid	100%
	● Error	0%	● Error	0%	● Error	0%
	● Empty	0%	● Empty	0%	● Empty	0%
1	48196321-38D9-EC11-BB3D-0022489A2...		21/05/2022 18:59:25		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 ID column and retain the IoT GUID column.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

QUESTION 4

You have a Power BI tenant that contains 10 workspaces.

You need to create dataflows in three of the workspaces. The solution must ensure that data engineers can access the resulting data by using Azure Data Factory.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point

A. Associate the Power BI tenant to an Azure Data Lake Storage account.

B. Add the managed identity for Data Factory as a member of the workspaces.

C. Create and save the dataflows to an Azure Data Lake Storage account.

D. Create and save the dataflows to the internal storage of Power BL

Correct Answer: AC

QUESTION 5

You have a Power BI Premium capacity.

You need to increase the number of virtual cores associated to the capacity.

Which role do you need?

A. Power BI workspace admin

B. capacity admin

C. Power Platform admin

D. Power BI admin

Correct Answer: D

Change capacity size

Power BI admins and global administrators can change Power BI Premium capacity. Capacity admins who are not a Power BI admin or global administrator don\\'t have this option.

Reference: https://docs.microsoft.com/en-us/power-bi/enterprise/service-admin-premium- manage

QUESTION 6

You have an Azure subscription that contains an Azure Synapse Analytics workspace. You create an Azure Data Lake Storage Gen2 account and upload a CSV file named Filel.csv. You need to use Synapse Studio to query the data in Filel.csv by using a serverless SQL pool. Which Transact-SQL operator should you include in the query?
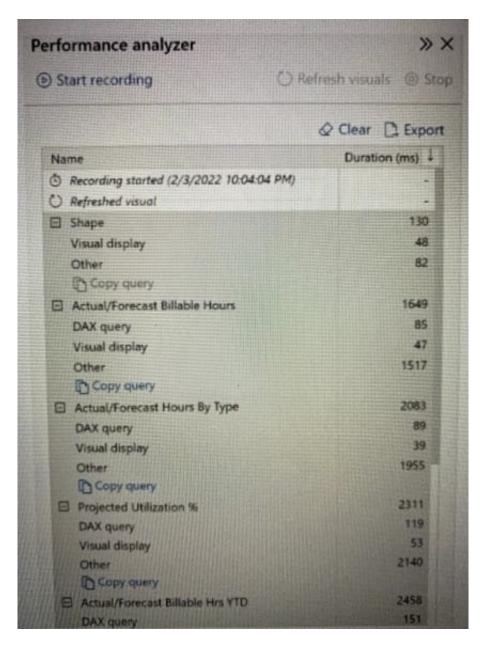
A. STRIMO_SPLIT

B. OPENOUERY

C. OPCNROWSET

D. OPEMDATASOURCE

Correct Answer: C

QUESTION 7

You open a Power BI Desktop report that contains an imported data model and a single report page.

You open Performance analyzer, start recording, and refresh the visuals on the page. The recording produces the results shown in the following exhibit

What can you identify from the results?

A. The Actual/Forecast Hours by Type visual takes a long time to render on the report page when the data is cross-filtered.

B. The Actual/Forecast Billable Hrs YTD visual displays the most data.

C. Unoptimized DAX queries cause the page to load slowly.

D. When all the visuals refresh simultaneously, the visuals spend most of the time waiting on other processes to finish.

Correct Answer: D

QUESTION 8

HOTSPOT

You manage a dataset that contains the two data sources as shown in the following table.

Data source	Type of data	Privacy level
Azure SQL database	Sensitive company data	Private
Microsoft SharePoint folder	Non-sensitive company data	Private

When you attempt to refresh the dataset in powerbi.com, you receive the following error message: "[Unable to combine data] Add Columns is accessing data sources that have privacy levels which cannot be used together. Please rebuild this

data combination."

You discover that the dataset contains queries that fold data from the SharePoint folder to the Azure SQL database.

You need to resolve the error. The solution must provide the highest privacy possible.

Which privacy level should you select for each data source? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Azure SQL database:

Organizational
Private
Public

SharePoint folder:

Organizational
Private
Public

Correct Answer:

Azure SQL database:

Organizational
Private
Public

SharePoint folder:

Organizational
Private
Public

Box 1: Private

This Formula.Firewall error is the result of Power Query\'s Data Privacy Firewall (aka the Firewall)

Note: Folding is a term that refers to converting expressions in M (such as filters, renames, joins, and so on) into operations against a raw data source (such as SQL, OData, and so on).

Box 2: Organizational

Organizational Limits the visibility of a data source to a trusted group of people. It is isolated from all Public data sources, but is visible to other Organizational data sources. A common example is a Microsoft Word document on an intranet SharePoint site with permissions enabled for a trusted group.

QUESTION 9

You are creating a Power BI report that will contain multiple visuals.

You need to ensure that the report is accessible to users who use a screen reader.

Which two configurations should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. consistent colors for each visual

B. consistent fonts for each visual

C. alt text for each visual

D. the tab order for each page

E. Play Axis for each page

Correct Answer: CD

QUESTION 10

You have a development workspace in the Power BI service.

You plan to use Tabular Editor to develop and deploy a new dataset, and then use Power BI Desktop to create and publish a report to the Power BI service.

Which three components should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. the Read Write XMLA endpoint in a capacity

B. a Premium Per User workspace

C. the Read Write XMLA endpoint in the tenant

D. a .pbix file that has an imported dataset

E. a .pbix file that has a live connection

Correct Answer: ABD

QUESTION 11

You have a Power BI report that contains the table shown in the following exhibit.

Store ID	Store	Returns	
6	Leo	$6,108	🔴
5	Fama	$6,097	🔴
13	Contoso	$5,214	🔴
11	Pomum	$4,968	🟡
7	VanArsdel	$4,964	🟡
10	Pirum	$4,644	🟡
2	Aliqui	$4,479	🟡
1	Abbas	$4,070	🟡
8	Natura	$3,376	🟡
14	Victoria	$2,317	🟢
4	Salvus	$2,296	🟢
12	Quibus	$2,208	🟢
3	Barba	$1,601	🟢
Total		**$52,342**	

The table contains conditional formatting that shows which stores are above, near, or below the monthly quota for returns. You need to ensure that the table is accessible to consumers of reports who have color vision deficiency. What should you do?

A. Add alt text to explain the information that each color conveys.

B. Move the conditional formatting icons to a tooltip report.

C. Change the icons to use a different shape for each color.

D. Remove the icons and use red, yellow, and green background colors instead.

Correct Answer: C

QUESTION 12

The enterprise analytics team needs to notify the report owners of the planned changes. The solution must minimize administrative effort. What should the team do?

A. Locate all the downstream reports, identify all the users that are assigned the Admin role, and then send an email to each user.

B. Write a PowerShell script to access the Power BI API that retrieves a list of downstream reports and a list of workspace administrators, and then send an email to each workspace administrator.

C. Perform impact analysis on the Financial Model dataset to notify the workspace contacts.

D. Perform impact analysis feature on the lake database data source to notify the workspace contacts.

Correct Answer: C

QUESTION 13

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. Request the authors of the deployment pipeline datasets to reduce the number of datasets republished during development.

B. In the dataset, delete the fact table.

C. Configure the dataset to use a composite model that has a DirectQuery connection to the fact table.

D. From Capacity settings in the Power Bi Admin portal, reduce the Max Intermediate Row Set Count setting.

Correct Answer: C

Previously in Power BI Desktop, when you used a DirectQuery in a report, no other data connections, whether DirectQuery or import, were allowed for that report. With composite models, that restriction is removed. A report can seamlessly include data connections from more than one DirectQuery or import data connection, in any combination you choose.

The composite models capability in Power BI Desktop consists of three related features:

*

Composite models: Allows a report to have two or more data connections from different source groups, such as one or more DirectQuery connections and an import connection, two or more DirectQuery connections, or any combination thereof.

*

Etc.

Reference: https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-composite- models

QUESTION 14

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 15

You have a Power BI dataset that has only the necessary fields visible for report development. You need to ensure that only 25 fields are available when end users personalize visuals. What should you do?

A. From Tabular Editor, create a new perspective.

B. From Tabular Editor, create a new role.

C. Hide all the fields in the dataset.

D. Configure object-level security (OLS).

Correct Answer: A

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