

Microsoft

Exam Questions DP-500

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



NEW QUESTION 1

- (Exam Topic 1)

What should you configure in the deployment pipeline?

- A. a backward deployment
- B. a selective deployment
- C. auto-binding
- D. a data source rule

Answer: C

NEW QUESTION 2

- (Exam Topic 2)

You need to recommend a solution to add new fields to the financial data Power BI dataset with data from the Microsoft SQL Server data warehouse.

What should you include in the recommendation?

- A. Azure Purview
- B. Site-to-Site VPN
- C. an XMLA endpoint
- D. the on-premises data gateway

Answer: D

NEW QUESTION 3

- (Exam Topic 2)

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.

Answer: C

NEW QUESTION 4

- (Exam Topic 3)

You develop a solution that uses a Power BI Premium capacity. The capacity contains a dataset that is expected to consume 50 GB of memory.

Which two actions should you perform to ensure that you can publish the model successfully to the Power BI service? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Increase the Max Offline Dataset Size setting.
- B. Invoke a refresh to load historical data based on the incremental refresh policy.
- C. Restart the capacity.
- D. Publish an initial dataset that is less than 10 GB.
- E. Publish the complete dataset.

Answer: CE

NEW QUESTION 5

- (Exam Topic 3)

You have an Azure Data Lake Storage Gen 2 container that stores more than 300,000 files representing hourly telemetry data. The data is organized in folders by the year, month, and day according to when the telemetry was captured.

You have the following query in Power Query Editor.

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 6

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic. You need to reduce the number of measures, while maintaining the current functionality.

Solution: From Power BI Desktop, you create a hierarchy. Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 7

- (Exam Topic 3)

You are optimizing a Power BI data model by using DAX Studio.

You need to capture the query events generated by a Power BI Desktop report. What should you use?

- A. the DMV list
- B. a Query Plan trace
- C. an All Queries trace
- D. a Server Timings trace

Answer: D

NEW QUESTION 8

- (Exam Topic 3)

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After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic. You need to reduce the number of measures, while maintaining the current functionality.

Solution: From Power BI Desktop, you group the measures in a display folder. Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 9

- (Exam Topic 3)

You have a Power BI report that contains one visual.

You need to provide users with the ability to change the visual type without affecting the view for other users. What should you do?

- A. From Report setting, select Personalize visuals.
- B. From Tabular Editor, create a new perspective.
- C. From the Bookmarks pane, select Focus mode, and then select Add.
- D. From Visual options in Report settings, select Use the modern visual header with updated styling options.

Answer: A

NEW QUESTION 10

- (Exam Topic 3)

You have a Power BI dataset that contains the following measures:

- Budget
- Actuals
- Forecast

You create a report that contains 10 visuals.

You need provide users with the ability to use a slicer to switch between the measures in two visuals only. You create a dedicated measure named cg Measure switch.

How should you complete the DAX expression for the Actuals measure? 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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 10

- (Exam Topic 3)

You have a Power BI workspace named Workspacel that contains five dataflows.

You need to configure Workspacel to store the dataflows in an Azure Data Lake Storage Gen2 account What should you do first?

- A. Delete the dataflow queries.
- B. From the Power BI Admin portal, enable tenant-level storage.
- C. Disable load for all dataflow queries.
- D. Change the Data source settings in the dataflow queries.

Answer: D

NEW QUESTION 11

- (Exam Topic 3)

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You have a Power BI dataset named Datasetl.

In Dataset1, you currently have 50 measures that use the same time intelligence logic. You need to reduce the number of measures, while maintaining the current functionality. Solution: From DAX Studio, you write a query that uses grouping sets.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 14

- (Exam Topic 3)

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

You need to make the visual more accessible to users who have color vision deficiency. What should you do?

- A. Change the font color of values in the Sales column to white.
- B. Change the red background color to orange.
- C. Add icons to represent the sales status of each product.
- D. Add additional measures to the table values.

Answer: B

NEW QUESTION 18

- (Exam Topic 3)

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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.

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

Solution: You recommend using openrowset with to explicitly specify the maximum length for businessName and surveyName.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 20

- (Exam Topic 3)

You have the Power BI workspaces 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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 25

- (Exam Topic 3)

You have a Power BI dataset that contains the following measure.

You need to improve the performance of the measure without affecting the logic or the results. What should you do?

- A. Replace both calculate functions by using a variable that contains the calculate function.
- B. Remove the alternative result of blank() from the divide function.
- C. Create a variable and replace the values for [sales Amount].
- D. Remove "calendar'[Flag] = "YTD" from the code.

Answer: A

NEW QUESTION 27

- (Exam Topic 3)

You have the following Python code in an Apache Spark notebook.

Which type of chart will the code produce?

- A. a stacked bar chart
- B. a pie chart
- C. a bar chart
- D. an area chart

Answer: C

NEW QUESTION 31

- (Exam Topic 3)

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 BI.

Answer: AB

NEW QUESTION 33

- (Exam Topic 3)

You have a Power BI data model.

You need to refresh the data from the source every 15 minutes. What should you do first?

- A. Enable the XMLA endpoint.
- B. Define an incremental refresh policy.
- C. Change the storage mode of the dataset.
- D. Configure a scheduled refresh.

Answer: A

NEW QUESTION 37

- (Exam Topic 3)

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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.

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

Answer: A

NEW QUESTION 42

- (Exam Topic 3)

You need to configure a source control solution for Azure Synapse Analytics. The solution must meet the following requirements:

- Code must always be merged to the main branch before being published, and the main branch must be used for publishing resource
- The workspace templates must be stored in the publish branch.
- A branch named dev123 will be created to support the development of a new feature. What should you do? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 45

- (Exam Topic 3)

You have an Azure Synapse Analytics dedicated SQL pool.

You need to ensure that the SQL pool is scanned by Azure Purview. What should you do first?

- A. Register a data source.
- B. Search the data catalog.
- C. Create a data share connection.
- D. Create a data policy.

Answer: B

NEW QUESTION 47

- (Exam Topic 3)

You have a dataset that contains a table named UserPermissions. UserPermissions contains the following data.

You plan to create a security role named User Security for the dataset. You need to filter the dataset based on the current users. What should you include in the DAX expression?

- A. [UserPermissions] - USERNAME()
- B. [UserPermissions] - USERPRINCIPALNAME()
- C. [User] = USERPRINCIPALNAME()
- D. [User] = USERNAMEQ()
- E. [User] = USEROBJECTID()

Answer: D

NEW QUESTION 50

- (Exam Topic 3)

You are planning a Power BI solution for a customer.

The customer will have 200 Power BI users. The customer identifies the following requirements:

- Ensure that all the users can create paginated reports.
- Ensure that the users can create reports containing AI visuals.
- Provide autoscaling of the CPU resources during heavy usage spikes.

You need to recommend a Power BI solution for the customer. The solution must minimize costs. What should you recommend?

- A. Power BI Premium per user
- B. a Power BI Premium per capacity
- C. Power BI Pro per user
- D. Power BI Report Server

Answer: A

NEW QUESTION 55

- (Exam Topic 3)

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics. You need to present the data distribution statistics from a DataFrame in a tabular view. Which method should you invoke on the DataFrame?

- A. freqItems
- B. explain
- C. rollup
- D. summary

Answer: D

NEW QUESTION 58

- (Exam Topic 3)

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

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.

Answer: D

NEW QUESTION 63

- (Exam Topic 3)

You are using an Azure Synapse Analytics serverless SQL pool to query network traffic logs in the Apache Parquet format. A sample of the data is shown in the following table.

You need to create a Transact-SQL query that will return the source IP address.
Which function should you use in the select statement to retrieve the source IP address?

- A. JSON_VALUE
- B. FOR.JSON
- C. CONVERT
- D. FIRST VALUE

Answer: A

NEW QUESTION 67

- (Exam Topic 3)

You are configuring a Power BI report for accessibility as shown in the following table.

You need to change the default colors of all three visuals to make the report more accessible to users who have color vision deficiency. Which two settings should you configure in the Customize theme window? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Theme colors
- B. Sentiment colors
- C. Divergent colors
- D. First-level elements colors

Answer: D

NEW QUESTION 69

- (Exam Topic 3)

You are using Azure Synapse Studio to explore a dataset that contains data about taxi trips.

You need to create a chart that will show the total trip distance according to the number of passengers as shown in the following exhibit.

How should you configure the chart? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 73

- (Exam Topic 3)

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)
- B)
- C)
- D)

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

NEW QUESTION 76

- (Exam Topic 3)

You are using GitHub as a source control solution for an Azure Synapse Studio workspace. You need to modify the source control solution to use an Azure DevOps Git repository. What should you do first?

- A. Disconnect from the GitHub repository.
- B. Create a new pull request.
- C. Change the workspace to live mode.
- D. Change the active branch.

Answer: A

NEW QUESTION 80

- (Exam Topic 3)

You have five Power BI reports that contain R script data sources and R visuals.

You need to publish the reports to the Power BI service and configure a daily refresh of datasets. What should you include in the solution?

- A. a Power BI Embedded capacity
- B. an on-premises data gateway (standard mode)
- C. a workspace that connects to an Azure Data Lake Storage Gen2 account
- D. an on-premises data gateway (personal mode)

Answer: D

NEW QUESTION 81

- (Exam Topic 3)

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After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)

Users indicate that when they build reports from the data model, the reports take a long time to load. You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend creating a perspective that contains the commonly used fields. Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 82

- (Exam Topic 3)

You are configuring Azure Synapse Analytics pools to support the Azure Active Directory groups shown in the following table.

Which type of pool should each group use? To answer, drag the appropriate pool types to the groups. Each pool type 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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 86

- (Exam Topic 3)

You have a Power BI dataset that contains two tables named Table1 and Table2. The dataset is used by one report.

You need to prevent project managers from accessing the data in two columns in Table1 named Budget and Forecast.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 90

- (Exam Topic 3)

You have the following code in an Azure Synapse notebook.

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

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 95

- (Exam Topic 3)

You have new security and governance protocols for Power BI reports and datasets. The new protocols must meet the following requirements.

- New reports can be embedded only in locations that require authentication.
- Live connections are permitted only for workspaces that use Premium capacity datasets.

Which three actions should you recommend performing in the Power BI Admin portal? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. From Tenant settings, disable Allow XMLA endpoints and Analyze in Excel with on-premises datasets.
- B. From the Premium per user settings, set XMLA Endpoint to Off.
- C. From Embed Codes, delete all the codes.
- D. From Capacity settings, set XMLA Endpoint to Read Write.
- E. From Tenant settings, set Publish to web to Disable.

Answer: A

NEW QUESTION 96

- (Exam Topic 3)

You have the following code in an Azure Synapse notebook.

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

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 97

- (Exam Topic 3)

You need to save Power BI dataflows in an Azure Storage account.

Which two prerequisites are required to support the configuration? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. The storage account must be protected by using an Azure Firewall.
- B. The connection must be created by a user that is assigned the Storage Blob Data Owner role.
- C. The storage account must have hierarchical namespace enabled.
- D. Dataflows must exist already for any directly connected Power BI workspaces.
- E. The storage account must be created in a separate Azure region from the Power BI tenant and workspaces.

Answer: BC

NEW QUESTION 99

- (Exam Topic 3)

You are creating a Python visual in Power BI Desktop.

You need to retrieve the value of a column named Unit Price from a DataFrame.

How should you reference the Unit Price column in the Python code?

- A. `pandas.DataFrame('Unit Price')`
- B. `dataset['Unit Price']`
- C. `data = [Unit Price]`
- D. `('Unit Price')`

Answer: A

NEW QUESTION 100

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)

Users indicate that when they build reports from the data model, the reports take a long time to load. You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend moving all the measures to a calculation group. Does this meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 101

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