

Microsoft

Exam Questions DA-100

Analyzing Data with Microsoft Power BI



NEW QUESTION 1

- (Exam Topic 4)

You have four sales regions. Each region has multiple sales managers.

You implement row-level security (RLS) in a data model. You assign the relevant distribution lists to each role.

You have sales reports that enable analysis by region. The sales managers can view the sales records of their region. The sales managers are prevented from viewing records from other regions.

A sales manager changes to a different region.

You need to ensure that the sales manager can see the correct sales data. What should you do?

- A. From Microsoft Power BI Desktop, edit the Row-Level Security setting for the reports.
- B. Change the Microsoft Power BI license type of the sales manager.
- C. Manage the permissions of the underlying dataset
- D. Request that the sales manager be added to the correct Azure Active Directory group.

Answer: D

Explanation:

Using AD Security Groups, you no longer need to maintain a long list of users.

All that you will need to do is to put in the AD Security group with the required permissions and Power BI will do the REST! This means a small and simple security file with the permissions and AD Security group.

Note: Configure role mappings

Once published to Power BI, you must map members to dataset roles.

Members can be user accounts or security groups. Whenever possible, we recommend you map security groups to dataset roles. It involves managing security group memberships in Azure Active Directory. Possibly, it delegates the task to your network administrators.

Reference:

<https://www.fourmoo.com/2018/02/20/dynamic-row-level-security-is-easy-with-active-directory-security-group>

<https://docs.microsoft.com/en-us/power-bi/guidance/rls-guidance>

NEW QUESTION 2

- (Exam Topic 4)

You have sales data in a star schema that contains four tables named Sales, Customer, Date, and Product. The Sales table contains purchase and ship dates.

Most often, you will use the purchase date to analyze the data, but you will analyze the data by both dates independently and together.

You need to design an imported dataset to support the analysis. The solution must minimize the model size and the number of queries against the data source.

Which data modeling design should you use?

- A. Use the Auto Date/Time functionality in Microsoft Power BI and do NOT import the Date table.
- B. Duplicate the Date query in Power Query and create active relationships between Sales and both Date tables in the modeling view.
- C. On the Date table, use a reference query in Power Query and create active relationships between Sales and both Date tables in the modeling view.
- D. Import the Date table twice in Power Query and create active relationships between Sales and both Date tables in the modeling view.

Answer: D

Explanation:

Microsoft recommends defining active relationships whenever possible. They widen the scope and potential of how your model can be used by report authors, and users working with Q&A.

Refactoring methodology (example): Here's a methodology to refactor a model from a single role-playing dimension-type table, to a design with one table per role.

> Remove any inactive relationships.

> Consider renaming the role-playing dimension-type table to better describe its role. In the example, the Airport table is related to the ArrivalAirport column of the Flight table, so it's renamed as Arrival Airport.

> Create a copy of the role-playing table, providing it with a name that reflects its role. If it's an Import table, we recommend defining a calculated table. If it's a DirectQuery table, you can duplicate the Power Query query.

Only one relationship can be active.

Note: If you query two or more tables at the same time, when the data is loaded, Power BI Desktop attempts to find and create relationships for you. The relationship options Cardinality, Cross filter direction, and Make this relationship active are automatically set.

Reference:

<https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-create-and-manage-relationships> <https://docs.microsoft.com/en-us/power-bi/guidance/relationships-active-inactive>

NEW QUESTION 3

- (Exam Topic 4)

You have a CSV file that contains user complaints. The file contains a column named Logged. Logged contains the date and time each complaint occurred. The data in Logged is in the following format:

at 08:59.

You need to be able to analyze the complaints by the logged date and use a built-in date hierarchy. D18912E1457D5D1DDCBD40AB3BF70D5D

What should you do?

- A. Change the data type of the Logged column to Date.
- B. Apply a transform to extract the last 11 characters of the Logged column and set the data type of the new column to Date.
- C. Create a column by example that starts with 2018-12-31 and set the data type of the new column to Date.
- D. Apply a transform to extract the first 11 characters of the Logged column.

Answer: C

NEW QUESTION 4

- (Exam Topic 4)

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 create a parameter named DataSourceExcel that holds the file name and location of a Microsoft Excel data source.
 You need to update the query to reference the parameter instead of multiple hard-coded copies of the location within each query definition.
 Solution: You create a new query that references DataSourceExcel. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead modify the source step of the queries to use DataSourceExcel as the file path.

Note: Parameterising a Data Source could be used in many different use cases. From connecting to different data sources defined in Query Parameters to load different combinations of columns.

Reference:

<https://www.biinsight.com/power-bi-desktop-query-parameters-part-1/>

NEW QUESTION 5

- (Exam Topic 4)

You have a query named Customer that imports CSV files from a data lake. The query contains 500 rows as shown in the exhibit. (Click the Exhibit tab.)

| | Source.Name | Customer ID | Modified Date | Customer | Category |
|----|----------------------|-------------|-----------------------|------------------------------------|--------------|
| 1 | Customer20200104.csv | 1 | 1/1/2020 12:00:00 AM | Tailspin Toys (Head Office) | Novelty Shop |
| 2 | Customer20200104.csv | 2 | 1/1/2020 12:00:00 AM | Tailspin Toys (Sylvanite, MT) | Novelty Shop |
| 3 | Customer20200104.csv | 3 | 1/1/2020 12:00:00 AM | Tailspin Toys (Peeples Valley, AZ) | Novelty Shop |
| 4 | Customer20200104.csv | 4 | 1/4/2020 12:00:00 AM | Tailspin Toys (Medicine Lodge, KS) | Novelty Shop |
| 5 | Customer20200104.csv | 5 | 1/4/2020 12:00:00 AM | Tailspin Toys (Gasport, NY) | Novelty Shop |
| 6 | Customer20200104.csv | 6 | 1/4/2020 12:00:00 AM | Tailspin Toys (Jessie, ND) | Novelty Shop |
| 7 | Customer20200104.csv | 7 | 1/4/2020 12:00:00 AM | Tailspin Toys (Frankewing, TN) | Novelty Shop |
| 8 | Customer20200104.csv | 8 | 1/4/2020 12:00:00 AM | Tailspin Toys (Bow Mar, CO) | Novelty Shop |
| 9 | Customer20200104.csv | 9 | 1/4/2020 12:00:00 AM | Tailspin Toys (Netcong, NJ) | Novelty Shop |
| 10 | Customer20200104.csv | 10 | 1/4/2020 12:00:00 AM | Tailspin Toys (Wimbledon, ND) | Novelty Shop |
| 11 | Customer20200112.csv | 1 | 1/12/2020 12:00:00 AM | Tailspin Toys (Head Office) | Novelty Shop |
| 12 | Customer20200112.csv | 2 | 1/12/2020 12:00:00 AM | Tailspin Toys (Sylvanite, MT) | Novelty Shop |
| 13 | Customer20200112.csv | 3 | 1/12/2020 12:00:00 AM | Tailspin Toys (Peeples Valley, AZ) | Novelty Shop |
| 14 | Customer20200112.csv | 4 | 1/12/2020 12:00:00 AM | Tailspin Toys (Medicine Lodge, KS) | Novelty Shop |
| 15 | Customer20200112.csv | 5 | 1/12/2020 12:00:00 AM | Tailspin Toys (Gasport, NY) | Novelty Shop |
| 16 | Customer20200112.csv | 2 | 1/22/2020 12:00:00 AM | Tailspin Toys (Sylvanite, MT) | Novelty Shop |
| 17 | Customer20200112.csv | 7 | 1/22/2020 12:00:00 AM | Tailspin Toys (Frankewing, TN) | Novelty Shop |
| 18 | Customer20200112.csv | 8 | 1/22/2020 12:00:00 AM | Tailspin Toys (Bow Mar, CO) | Novelty Shop |
| 19 | Customer20200112.csv | 9 | 1/22/2020 12:00:00 AM | Tailspin Toys (Netcong, NJ) | Novelty Shop |
| 20 | Customer20200112.csv | 10 | 1/22/2020 12:00:00 AM | Tailspin Toys (Wimbledon, ND) | Novelty Shop |

Each file contains deltas of any new or modified rows from each load to the data lake. Multiple files can have the same customer ID.

You need to keep only the last modified row for each customer ID.

Which three 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.

Actions

Answer Area

Filter the Customer query on Modified Date is Latest.

Merge the CustomerGrouped query into the Customer query based on Customer ID and Modified Date by using a left outer join.

Remove duplicates in the Customer ID column.

Duplicate the Customer query and name the new query CustomerGrouped.

Group the CustomerGrouped query by Customer ID and output the max Modified Date value into a column named Modified Date.

Merge the two queries based on Customer ID and Modified Date by using an inner join.



- A. Mastered
- B. Not Mastered

Answer: A

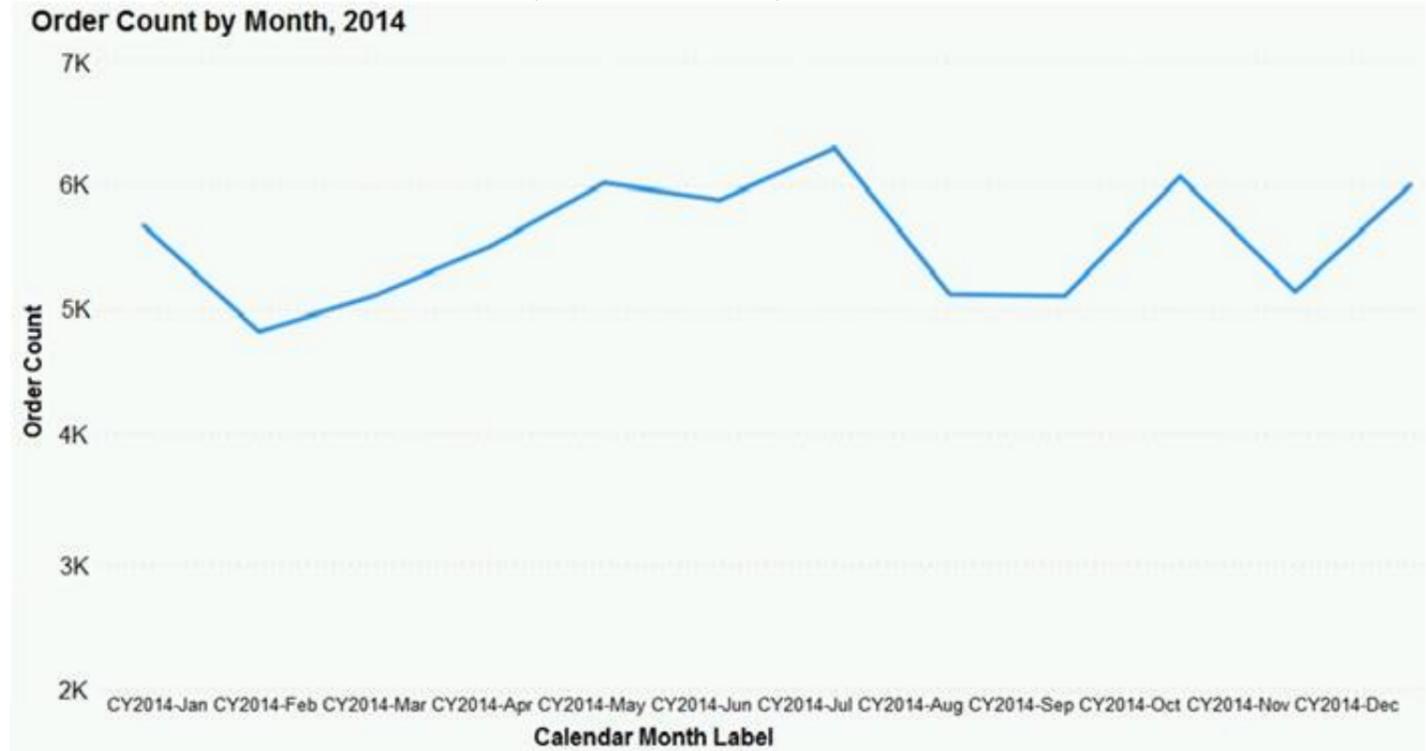
Explanation:

- 1) Duplicate Customer query
- 2) Group by CustId by Max ModifiedDate (only 2 columns to keep)
- 3) Merge two queries on CustId and ModifiedDate inner join (to retrieve other customer informations related to latest Date)

NEW QUESTION 6

- (Exam Topic 4)

You have the line chart shown in the exhibit. (Click the Exhibit tab.)



You need to modify the chart to meet the following requirements:

- > Identify months that have order counts above the mean.
- > Display the mean monthly order count.

Which three 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.

| Actions | Answer Area |
|--|-------------|
| Create a 12-month rolling average quick measure and add the measure to the line chart value. | |
| From the Analytics pane, add a Median line. | |
| Select the line chart. | ⬅️ |
| From the Analytics pane, add an Average line. | ➡️ |
| Turn on data labels for the new line. | |

⬆️
⬇️

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

| Actions | Answer Area |
|--|---|
| Create a 12-month rolling average quick measure and add the measure to the line chart value. | <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;">Select the line chart.</div> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;">From the Analytics pane, add an Average line.</div> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;">Turn on data labels for the new line.</div> |
| From the Analytics pane, add a Median line. | |
| Select the line chart. | |
| From the Analytics pane, add an Average line. | |
| Turn on data labels for the new line. | |

NEW QUESTION 7

- (Exam Topic 3)

You need to create the On-Time Shipping report. The report must include a visualization that shows the percentage of late orders. Which type of visualization should you create?

- A. bar chart
- B. scatterplot
- C. pie chart

Answer: A

Explanation:

Scenario: The On-Time Shipping report will show the following metrics for a selected shipping month or quarter:

The percentage of orders that were shipped late by country and shipping region Customers that had multiple late shipments during the last quarter

Note: Bar and column charts are some of the most widely used visualization charts in Power BI. They can be used for one or multiple categories. Both these chart types represent data with rectangular bars, where the size of the bar is proportional to the magnitude of data values.

The difference between the two is that if the rectangles are stacked horizontally, it is called a bar chart. If the rectangles are vertically aligned, it is called a column chart.

Reference:

<https://www.pluralsight.com/guides/bar-and-column-charts-in-power-bi>

NEW QUESTION 8

- (Exam Topic 2)

Which two types of visualizations can be used in the balance sheet reports to meet the reporting goals? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. a line chart that shows balances by quarter filtered to account categories that are long-term liabilities.
- B. a clustered column chart that shows balances by date (x-axis) and account category (legend) without filters.
- C. a clustered column chart that shows balances by quarter filtered to account categories that are long-term liabilities.
- D. a pie chart that shows balances by account category without filters.
- E. a ribbon chart that shows balances by quarter and accounts in the legend.

Answer: AE

Explanation:

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-types-for-reports-and-q-and-a>

NEW QUESTION 9

- (Exam Topic 1)

You need to create relationships to meet the reporting requirements of the customer service department. What should you create?

- A. an additional date table named ShipDate, a one-to-many relationship from Sales[sales_date_id] to Date[date_id], and a one-to-many relationship from Sales[sales_ship_date_id] to ShipDate[date_id]
- B. an additional date table named ShipDate, a many-to-many relationship from Sales[sales_date_id] to Date[date_id], and a many-to-many relationship from Sales[sales_ship_date_id] to ShipDate[date_id]
- C. a one-to-many relationship from Date[date_id] to Sales[sales_date_id] and another one-to-many relationship from Date[date_id] to Weekly_Returns[week_id]
- D. a one-to-many relationship from Sales[sales_date_id] to Date[date_id] and a one-to-many relationship from Sales[sales_ship_date_id] to Date[date_id]
- E. a one-to-many relationship from Date[date_id] to Sales[sales_date_id] and another one-to-many relationship from Date[date_id] to Sales[sales_ship_date_id]

Answer: A

Explanation:

Scenario: The customer service department requires a visual that can be filtered by both sales month and ship month independently.

Reference:

<https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-relationships-understand>

NEW QUESTION 10

- (Exam Topic 1)

You need to create a visualization to meet the reporting requirements of the sales managers.

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

Answer Area

| | |
|---------------------|--|
| Visualization type: | <div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px;">▼</div> <div style="padding: 2px;"> Card Donut chart Gauge Key influencers KPI </div> </div> |
| Indicator: | <div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px;">▼</div> <div style="padding: 2px;"> Date[month] Sales[sales_amount] Sales[sales_id] Targets[sales_target] Weekly_Returns[total_returns] </div> </div> |
| Trend axis: | <div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px;">▼</div> <div style="padding: 2px;"> Date[month] Sales[sales_amount] Sales[sales_id] Targets[sales_target] Weekly_Returns[total_returns] </div> </div> |
| Target goals: | <div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px;">▼</div> <div style="padding: 2px;"> Date[month] Sales[sales_amount] Sales[sales_id] Targets[sales_target] Weekly_Returns[total_returns] </div> </div> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario: The sales managers require a visual to analyze sales performance versus sales targets.

Box 1: KPI

A Key Performance Indicator (KPI) is a visual cue that communicates the amount of progress made toward a measurable goal.

Box 2: Sales[sales_amount]

Box 3: Date[month]

Time > FiscalMonth. This value will represent the trend. Box 4: Targets[sales_target]

Reference:

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-kpi>

NEW QUESTION 10

- (Exam Topic 1)

What should you create to meet the reporting requirements of the sales department?

- A. a measure that uses a formula of SUM (Sales [sales_id])
- B. a calculated column that use a formula of COUNTA(sales [sales_id])
- C. a measure that uses a formula of COUNTROWS (Sales)
- D. a calculated column that uses a formula of SUM (Sales [sales_id])

Answer: C

Explanation:

The sale department requires reports that contain the number of sales transactions.

The COUNTROWS function counts the number of rows in the specified table, or in a table defined by an expression.

Reference:

<https://docs.microsoft.com/en-us/dax/countrows-function-dax>

NEW QUESTION 14

- (Exam Topic 4)

You are configuring a Microsoft Power BI data model to enable users to ask natural language questions by using Q&A. You have a table named Customer that has the following measure.

Customer Count = DISTINCTCOUNT(Customer[CustomerID])

Users frequently refer to customers as subscribers.

You need to ensure that the users can get a useful result for "subscriber count" by using Q&A. The solution must minimize the size of the model.

What should you do?

- A. Add a description of "subscriber count" to the Customer Count measure.
- B. Set Summarize By to None for the CustomerID column.
- C. Add a description of "Subscriber" to the Customer table.
- D. Add a synonym of "subscriber" to the Customer table.

Answer: B

Explanation:

You can add synonyms to tables and columns.

Note: This step applies specifically to Q&A (and not to Power BI reports in general). Users often have a variety of terms they use to refer to the same thing, such as total sales, net sales, total net sales. You can add these synonyms to tables and columns in the Power BI model.

This step applies specifically to Q&A (and not to Power BI reports in general). Users often have a variety of terms they use to refer to the same thing, such as total sales, net sales, total net sales. You can add these synonyms to tables and columns in the Power BI model.

Reference:

<https://docs.microsoft.com/en-us/power-bi/natural-language/q-and-a-best-practices>

NEW QUESTION 16

- (Exam Topic 4)

You have multiple dashboards.

You need to ensure that when users browse the available dashboards from powerbi.com, they can see which dashboards contain Personally Identifiable Information (PII). The solution must minimize configuration effort and impact on the dashboard design.

What should you use?

- A. comments
- B. tiles
- C. Microsoft Information Protection sensitivity labels
- D. Active Directory groups

Answer: D

Explanation:

Microsoft Information Protection sensitivity labels provide a simple way for your users to classify critical content in Power BI without compromising productivity or the ability to collaborate.

Sensitivity labels can be applied to datasets, reports, dashboards, and dataflows. Reference:

<https://docs.microsoft.com/en-us/power-bi/admin/service-security-sensitivity-label-overview>

NEW QUESTION 18

- (Exam Topic 4)

You have multiple dashboards.

You need to ensure that when users browse the available dashboards from powerbi.com, they can see which dashboards contain Personally Identifiable Information (PII). The solution must minimize configuration effort and impact on the dashboard design.

What should you use?

- A. Active Directory groups
- B. tiles
- C. data classifications
- D. comments

Answer: A

NEW QUESTION 19

- (Exam Topic 4)

You have a report that contains a bar chart and a column chart. The bar chart shows customer count by customer segment. The column chart shows sales by month.

You need to ensure that when a segment is selected in the bar chart, you see which portion of the total sales for the month belongs to the customer segment.

How should the visual interactions be set on the column chart when the bar chart is selected?

- A. no impact
- B. highlight
- C. filter

Answer: B

Explanation:

HIGHLIGHT as the question required us to "you see which portion of the total sales for the month belongs to the customer segment" -- in order to see WHICH portion, you need to still see the whole visual, highlight is most appropriate. If the requirement stated to ONLY SEE THE PORTION IT RELATES TO then filter would be appropriate.

NEW QUESTION 23

- (Exam Topic 4)

In Power BI Desktop, you are building a sales report that contains two tables. Both tables have row-level security (RLS) configured.

You need to create a relationship between the tables. The solution must ensure that bidirectional cross-filtering honors the RLS settings.

What should you do?

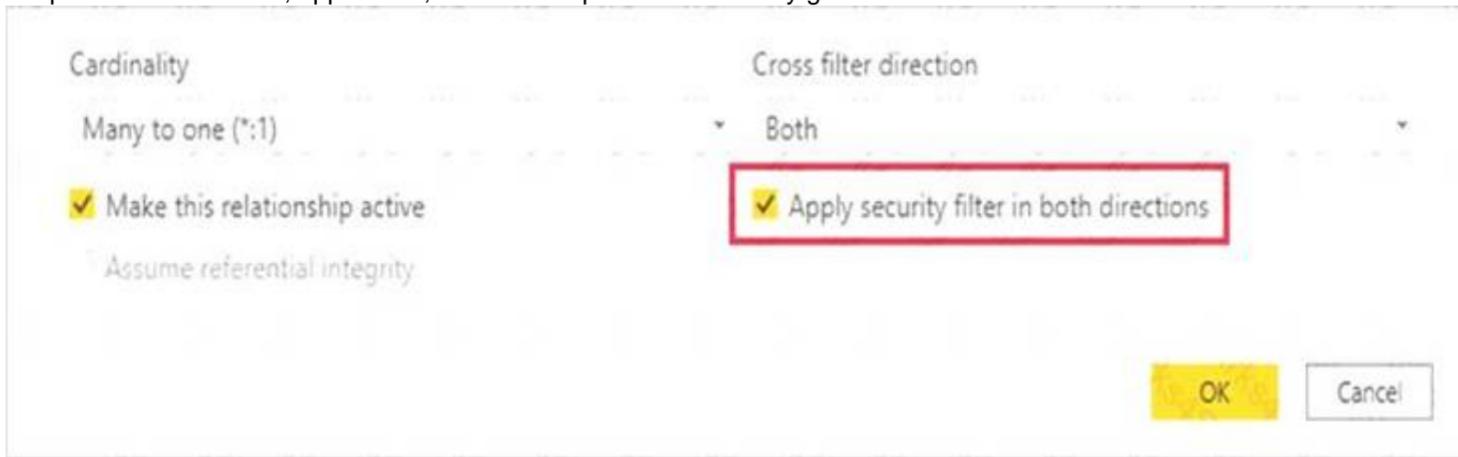
- A. Create an active relationship between the tables and select Assume referential integrity.
- B. Create an inactive relationship between the tables and select Assume referential integrity.
- C. Create an inactive relationship between the tables and select Apply security filter in both directions.
- D. Create an active relationship between the tables and select Apply security filter in both directions.

Answer: D

Explanation:

By default, row-level security filtering uses single-directional filters, whether the relationships are set to single direction or bi-directional. You can manually enable bi-directional cross-filtering with row-level security by selecting the relationship and checking the Apply security filter in both directions checkbox. Select this option

when you've also implemented dynamic row-level security at the server level, where row-level security is based on username or login ID. Graphical user interface, application, Word Description automatically generated



Reference:
<https://docs.microsoft.com/en-us/power-bi/admin/service-admin-rls>

NEW QUESTION 25

- (Exam Topic 4)

You create a dashboard by using the Microsoft Power BI Service. The dashboard contains a card visual that shows total sales from the current year. You grant users access to the dashboard by using the viewer role on the workspace. A user wants to receive daily notifications of the number shown on the card visual. You need to automate the notifications. What should you do?

- A. Share the dashboard to the user.
- B. Create a subscription.
- C. Create a data alert.
- D. Tag the user in a comment.

Answer: B

Explanation:

You can subscribe yourself and your colleagues to the report pages, dashboards, and paginated reports that matter most to you. Power BI e-mail subscriptions allow you to:

- > Decide how often you want to receive the emails: daily, weekly, hourly, monthly, or once a day after the initial data refresh.
- > Choose the time you want to receive the email, if you choose daily, weekly, hourly, or monthly. Note: Email subscriptions don't support most custom visuals. The one exception is those custom visuals that have been certified.

Email subscriptions don't support R-powered custom visuals at this time. Reference:

<https://docs.microsoft.com/en-us/power-bi/collaborate-share/service-report-subscribe> <https://docs.microsoft.com/en-us/power-bi/create-reports/service-set-data-alerts>

NEW QUESTION 27

- (Exam Topic 4)

You are creating an analytics report that will consume data from the tables shown in the following table.

| Table name | Column name | Data type |
|------------|-----------------|--------------|
| Sales | sales_id | Integer |
| | sales_date | Datetime |
| | Customer_id | Integer |
| | sales_amount | Floating |
| | employee_id | Integer |
| | sales_ship_date | Datetime |
| | store_id | Varchar(100) |
| Employee | employee_id | Integer |
| | first_name | Varchar(100) |
| | last_name | Varchar(100) |
| | employee_photo | Binary |

There is a relationship between the tables.

There are no reporting requirements on employeejd and employee_photo. You need to optimize the data model

What should you configure for employeejd and employee.photo? To answer, select the appropriate options in the answer area.

Answer Area



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Table Description automatically generated

Box 1: Hide

Optimize data by hiding fields and sorting visualization data

Box 2: Delete

The fastest way to optimize your Power BI report is to limit the number of columns to only the ones you need in your data model. Go through your tables in Power Query and determine what fields are being used. Delete these columns if they are not being used in any of your reports or calculations.

Reference:

<https://tessellationtech.io/optimizing-power-bi-reports/>

NEW QUESTION 30

- (Exam Topic 4)

In Power BI Desktop, you are creating visualizations in a report based on an imported dataset

You need to allow Power BI users to export the summarized data used to create the visualizations but prevent the users from exporting the underlying data

What should you do?

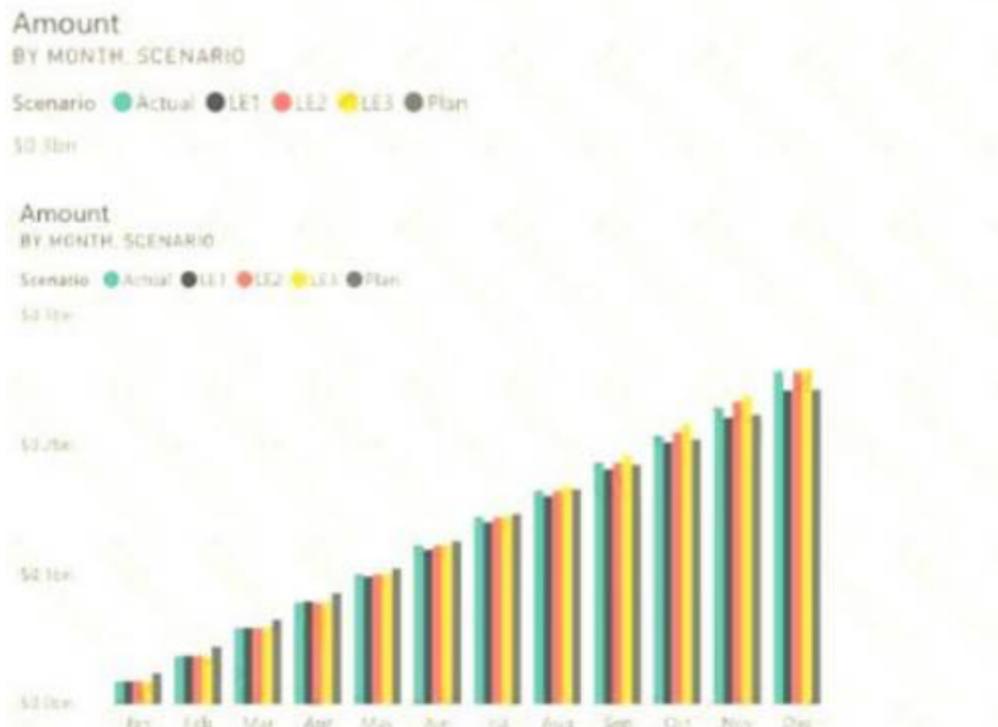
- A. From Power BI Desktop, configure the Data Load settings for the current file.
- B. From the Power BI service, configure the dataset permissions.
- C. From Power BI Desktop, configure the Report settings for the current file.
- D. From Power BI Desktop, modify the data source permissions.

Answer: B

NEW QUESTION 33

- (Exam Topic 4)

You have a Microsoft Power BI dashboard. The report used to create the dashboard uses an imported dataset from a Microsoft SQL Server data source. The dashboard is shown in the exhibit. (Click the Exhibit tab.)



What occurred at 12:03:06 PM?

- A. A user pressed F5
- B. A new transaction was added to the data source.
- C. A user added a comment to a tile.
- D. The dashboard tile cache refreshed.

Answer: D

Explanation:

Reference:
<https://docs.microsoft.com/en-us/power-bi/connect-data/refresh-data>

NEW QUESTION 38

- (Exam Topic 4)

You use an R visual to produce a map of 500,000 customers. You include the values of CustomerID, Latitude, and Longitude in the fields sent to the visual. Each customer ID is unique. In powerbi.com, when users load the visual, they only see some of the customers. What is the cause of the issue?

- A. The visual was built by using a different version of R.
- B. The data comes from a Microsoft SQL Server source.
- C. The data is deduplicated.
- D. Too many records were sent to the visual.

Answer: D

Explanation:

R visuals in the Power BI service have a few limitations including:

➤ Data size limitations – data used by the R visual for plotting is limited to 150,000 rows. If more than 150,000 rows are selected, only the top 150,000 rows are used and a message is displayed on the image. Additionally, the input data has a limit of 250 MB.

Reference:
<https://docs.microsoft.com/en-us/power-bi/visuals/service-r-visuals>

NEW QUESTION 42

- (Exam Topic 4)

You are reviewing a query that produces 10,000 rows in the Power Query Editor. You need to identify whether a column contains only unique values. Which two Data Preview options can you use? Each correct answer presents a complete solution.
 NOTE: Each correct selection is worth one point.

- A. Column profile
- B. Column distribution
- C. Show whitespace
- D. Column quality
- E. Monospace

Answer: AB

Explanation:

B: Column distribution: This feature provides a set of visuals underneath the names of the columns that showcase the frequency and distribution of the values in each of the columns. The data in these visualizations is sorted in descending order from the value with the highest frequency.

By hovering over the distribution data in any of the columns, you get information about the overall data in the column (with distinct count and unique values).

A: Column profile: This feature provides a more in-depth look at the data in a column [compared to column distribution]. Apart from the column distribution chart, it contains a column statistics chart.

Reference:

<https://docs.microsoft.com/en-us/power-query/data-profiling-tools>

NEW QUESTION 45

- (Exam Topic 4)

You are creating a Microsoft Power BI imported data model to perform basket analysis. The goal of the analysis is to identify which products are usually bought together in the same transaction across and within sales territories.

You import a fact table named Sales as shown in the exhibit. (Click the Exhibit tab.)

| Column name | Data type | Description |
|----------------------|-----------|--|
| SalesRowID | Integer | ID of the row from the source system, which represents a unique combination of SalesOrderNumber and SalesOrderLineNumber |
| ProductKey | Integer | Surrogate key that relates to the product dimension |
| OrderDateKey | Integer | Surrogate key that relates to the date dimension and is in the YYYYMMDD format |
| OrderDate | Datetime | Date and time an order was processed |
| CustomerKey | Integer | Surrogate key that relates to the customer dimension |
| SalesTerritoryKey | Integer | Surrogate key that relates to the sales territory dimension |
| SalesOrderNumber | Integer | Unique identifier of an order |
| SalesOrderLineNumber | Integer | Unique identifier of a line within an order |
| OrderQuantity | Integer | Quantity of the product ordered |
| LineTotal | Decimal | Total sales amount of a line before tax |
| TaxAmt | Decimal | Amount of tax charged for the items on a specified line within an order |
| Freight | Decimal | Amount of freight charged for the items on a specified line within an order |
| LastModified | Datetime | The date and time that a row was last modified in the source system |
| AuditID | Integer | The ID of the data load process that last updated a row |

The related dimension tables are imported into the model.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer Area

| Statements | Yes | No |
|---|-----------------------|-----------------------|
| The SalesRowID and AuditID columns can be removed from the model without impeding the analysis goals. | <input type="radio"/> | <input type="radio"/> |
| Both the OrderDateKey and OrderDate columns are necessary to perform the basket analysis. | <input type="radio"/> | <input type="radio"/> |
| The TaxAmt column must retain the current number of decimal places to perform the basket analysis. | <input type="radio"/> | <input type="radio"/> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Reference:
<https://finance-bi.com/power-bi-basket-analysis/>

NEW QUESTION 46

- (Exam Topic 4)

You publish a Microsoft Power BI dataset to powerbi.com. The dataset appends data from an on-premises Oracle database and an Azure SQL database by using one query.

You have admin access to the workspace and permission to use an existing On-premises data gateway for which the Oracle data source is already configured. You need to ensure that the data is updated every morning. The solution must minimize configuration effort. Which two actions should you perform when you configure scheduled refresh? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure the dataset to use the existing On-premises data gateway.
- B. Deploy an On-premises data gateway in personal mode.
- C. Set the refresh frequency to Daily.
- D. Configure the dataset to use the personal gateway.

Answer: AC

Explanation:

<https://docs.microsoft.com/en-us/power-bi/connect-data/service-gateway-personal-mode>

NEW QUESTION 51

- (Exam Topic 4)

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 are modeling data by using Microsoft Power BI. Part of the data model is a large Microsoft SQL Server table named Order that has more than 100 million records.

During the development process, you need to import a sample of the data from the Order table. Solution: You add a report-level filter that filters based on the order date.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The filter is applied after the data is imported. Instead add a WHERE clause to the SQL statement. Reference:

<https://docs.microsoft.com/en-us/power-bi/connect-data/service-gateway-sql-tutorial>

NEW QUESTION 53

- (Exam Topic 4)

You need to create a measure that will return the percentage of late orders.

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

Answer Area

```
Late Orders Percent =
VAR OrderCount =
    COUNTROWS ( 'Orders' )
VAR LateOrders =
    CALCULATE (
        COUNTROWS ( 'Orders' ),
        FILTER ( Orders, Orders[ShippedDate] > Orders[RequiredDate] )
    )
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface Description automatically generated

NEW QUESTION 56

- (Exam Topic 4)

ion have a Power BI dataset that contains a table named Temperature Readings. Temperature Readings contains the columns shown in the following table.

| Name | Data type | Value example |
|-------------|-----------|---------------------|
| DateTime | DateTime | 4-Aug-2020 13:30:01 |
| Longitude | Decimal | 10.049567988755534 |
| Latitude | Decimal | 53.462766759577057 |
| TempCelsius | Decimal | 12.5 |

The table has 12 million rows. All the columns are needed for analysis.

You need to optimize the dataset to decrease the model size. The solution must not affect the precision of the data.

What should you do?

- A. Split the DateTime column into separate date and time columns.
- B. Disable the Power Query load.
- C. Round the Longitude column two decimal places.
- D. Change the data type of the TempCelsius column to Integer

Answer: B

Explanation:

Disable Power Query load.

Power Query queries that are intended support data integration with other queries should not be loaded to the model. To avoid loading the query to the model, take care to ensure that you disable query load in these instances.

Reference:

<https://docs.microsoft.com/en-us/power-bi/guidance/import-modeling-data-reduction#disable-power-query-quer>

NEW QUESTION 58

- (Exam Topic 4)

You have a Power BI tenant.

You have reports that use financial datasets and are exported as PDF files. You need to ensure that the reports are encrypted.

What should you implement?

- A. dataset certifications
- B. row-level security (RLS)
- C. sensitivity labels
- D. Microsoft Intune policies

Answer: C

Explanation:

General availability of sensitivity labels in Power BI.

Microsoft Information Protection sensitivity labels provide a simple way for your users to classify critical content in Power BI without compromising productivity or the ability to collaborate. Sensitivity labels can be applied on datasets, reports, dashboards, and dataflows. When data is exported from Power BI to Excel, PowerPoint or PDF files, Power BI automatically applies a sensitivity label on the exported file and protects it according to the label's file encryption settings. This way your sensitive data remains protected no matter where it is.

Reference:

<https://powerbi.microsoft.com/en-us/blog/announcing-power-bi-data-protection-ga-and-introducing-new-capabil>

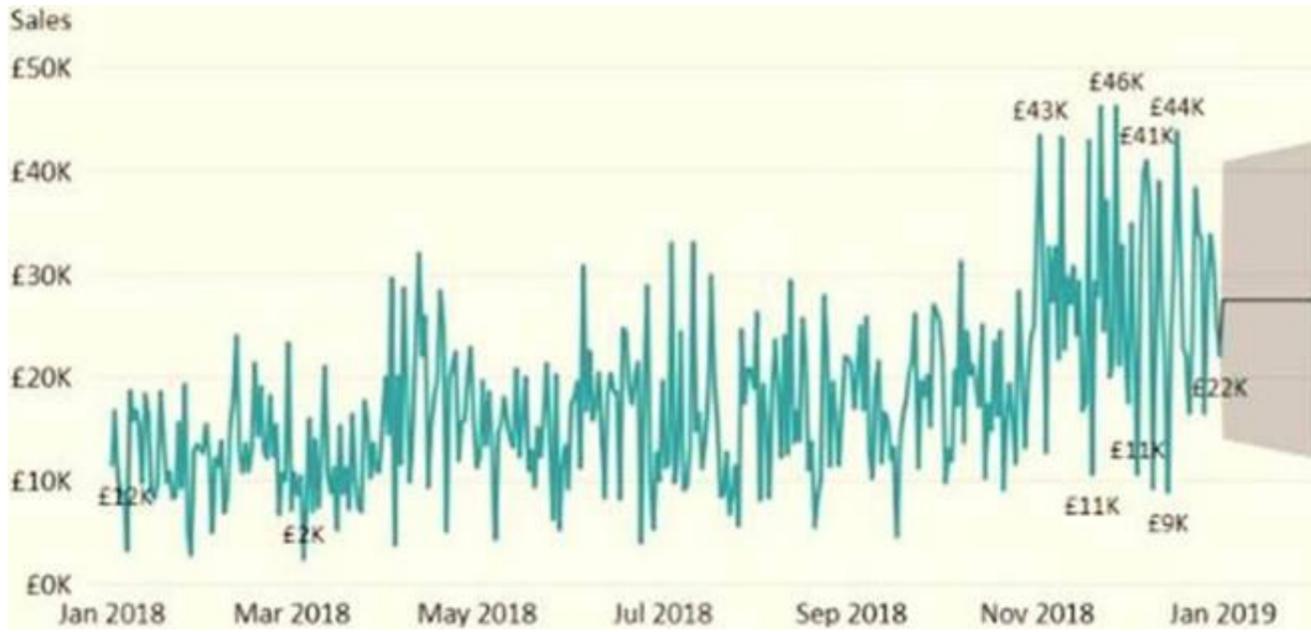
NEW QUESTION 61

- (Exam Topic 4)

You have the visual shown in the Original exhibit. (Click the Original tab.)



You need to configure the visual as shown in the Modified exhibit. (Click the Modified tab.)



What should you add to the visual?

- A. a measure
- B. a trendline
- C. a forecast
- D. an Average line

Answer: C

Explanation:

Explore forecast results by adjusting the desired confidence interval or by adjusting outlier data to see how they affect results.

Timeline Description automatically generated with low confidence

Reference:

<https://powerbi.microsoft.com/fr-fr/blog/introducing-new-forecasting-capabilities-in-power-view-for-office-365>

NEW QUESTION 64

- (Exam Topic 4)

You build a report to analyze customer transactions from a database that contains the tables shown in the following table.

| Table name | Column name |
|-------------|-----------------------------|
| Customer | CustomerID (primary key) |
| | Name |
| | State |
| | Email |
| Transaction | TransactionID (primary key) |
| | CustomerID (foreign key) |
| | Date |
| | Amount |

You import the tables.

Which relationship should you use to link the tables?

- A. one-to-many from Customer to Transaction
- B. one-to-one between Customer and Transaction
- C. one-to-many from Transaction to Customer
- D. many-to-many between Customer and Transaction

Answer: A

Explanation:

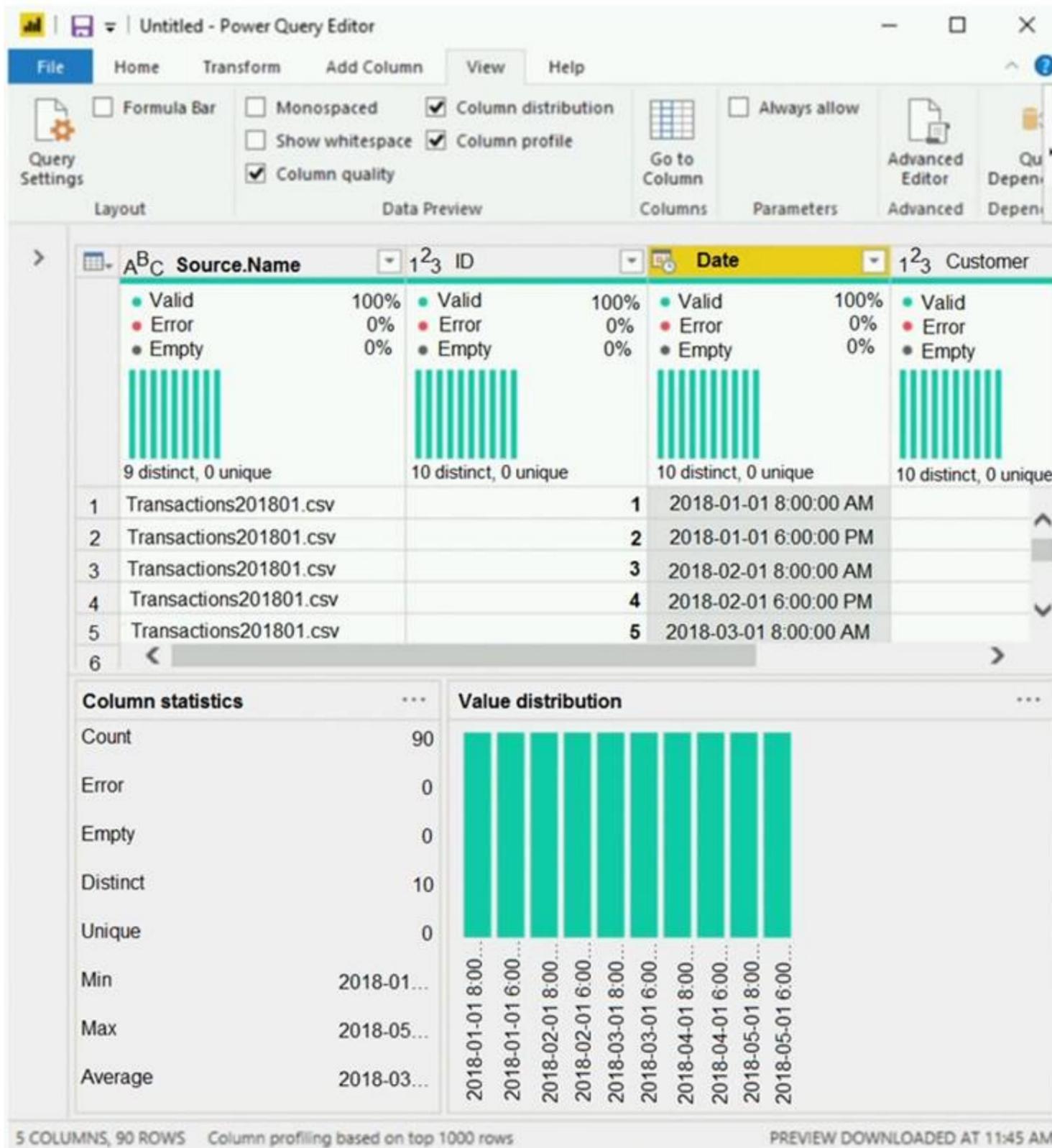
Each customer can have many transactions.

For each transaction there is exactly one customer.

NEW QUESTION 68

- (Exam Topic 4)

You view a query named Transactions as shown in the following exhibit.



The query gets CSV files from a folder.

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.

Answer Area

There are **[answer choice]** CSV files:

- 9
- 10
- 25
- 90
- 1,000

Removing duplicates based on the Date column will reduce the dataset to **[answer choice]** rows:

- 9
- 10
- 25
- 90
- 1,000

- A. Mastered
- B. Not Mastered

Answer: A

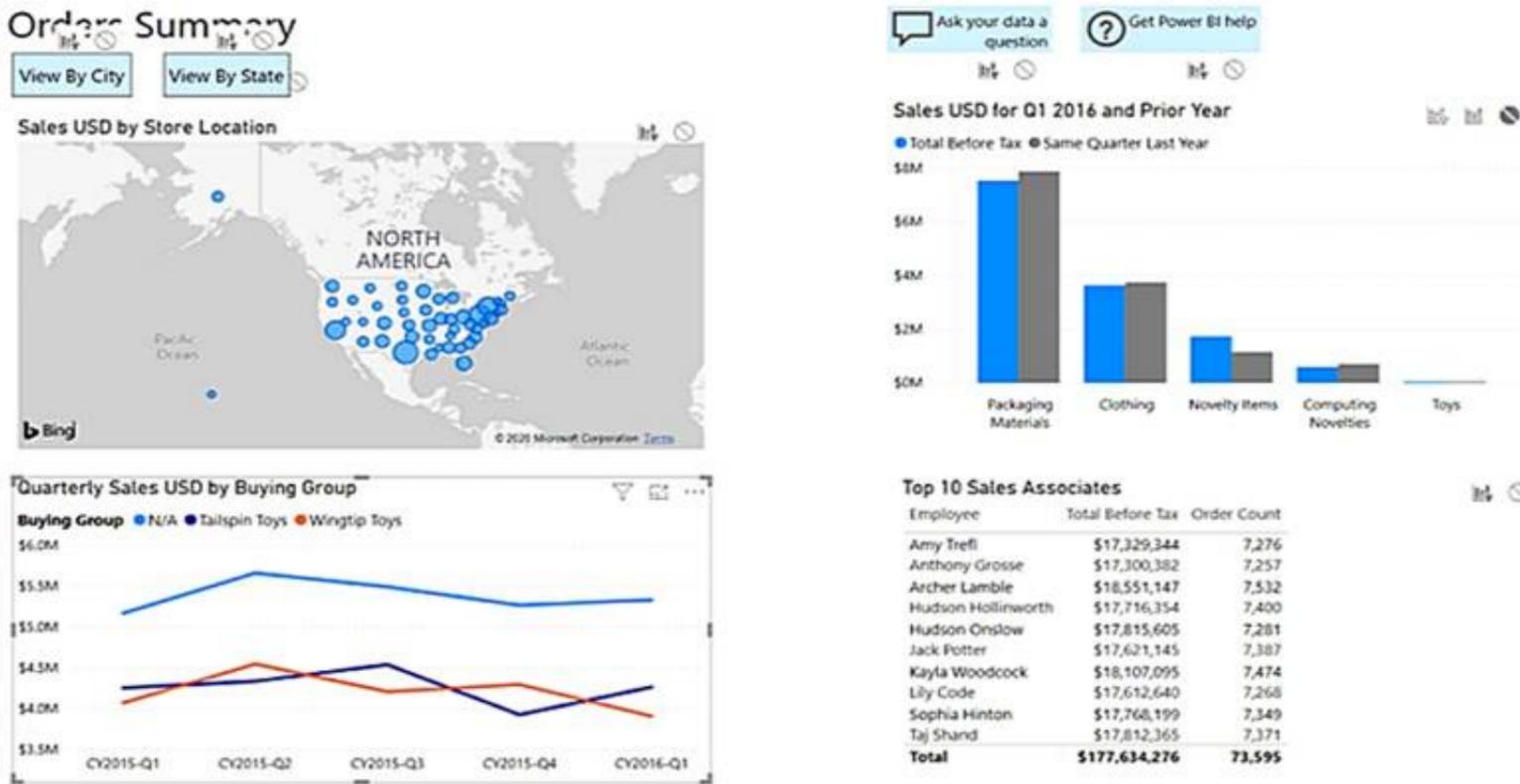
Explanation:

Box 1: 9
 9 distinct CSV files.
 Box 2: 10
 10 distinct dates.
<https://pediaa.com/what-is-the-difference-between-unique-and-distinct-in-sql/#:~:text=Unique%20and%20Disti>

NEW QUESTION 71

- (Exam Topic 4)

You have a report page that contains the visuals 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.

Answer Area

Selecting a quarter on the line chart will [answer choice] the clustered column chart.

cross-filter
 cross-highlight
 not affect

Selecting a data point on the Tailspin Toys line on the line chart will [answer choice] the map.

cross-filter
 cross-highlight
 not affect

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

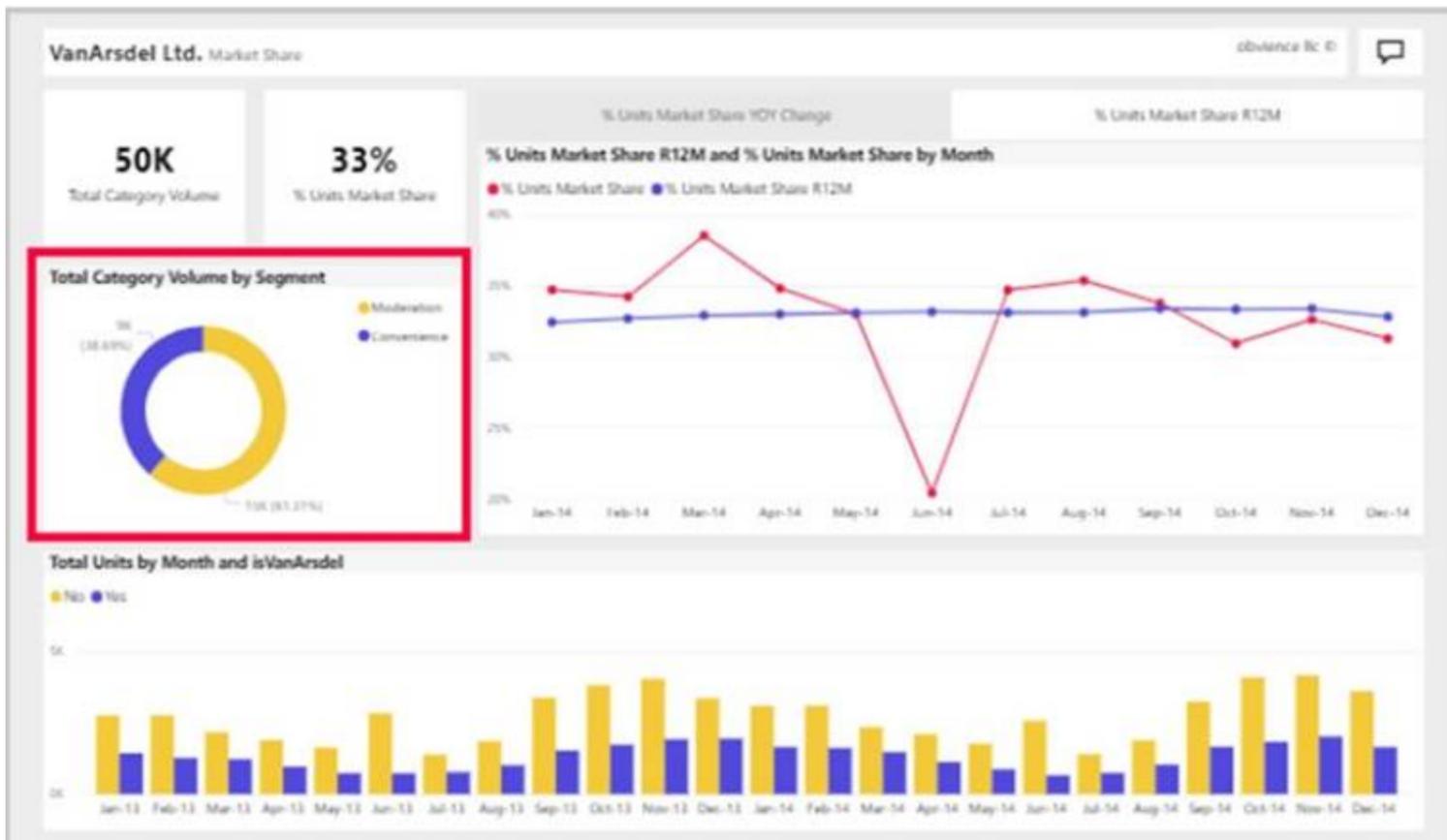
Box 1: cross-filter

By default, selecting a data point in one visual on a report page will cross-filter or cross-highlight the other visuals on the page.

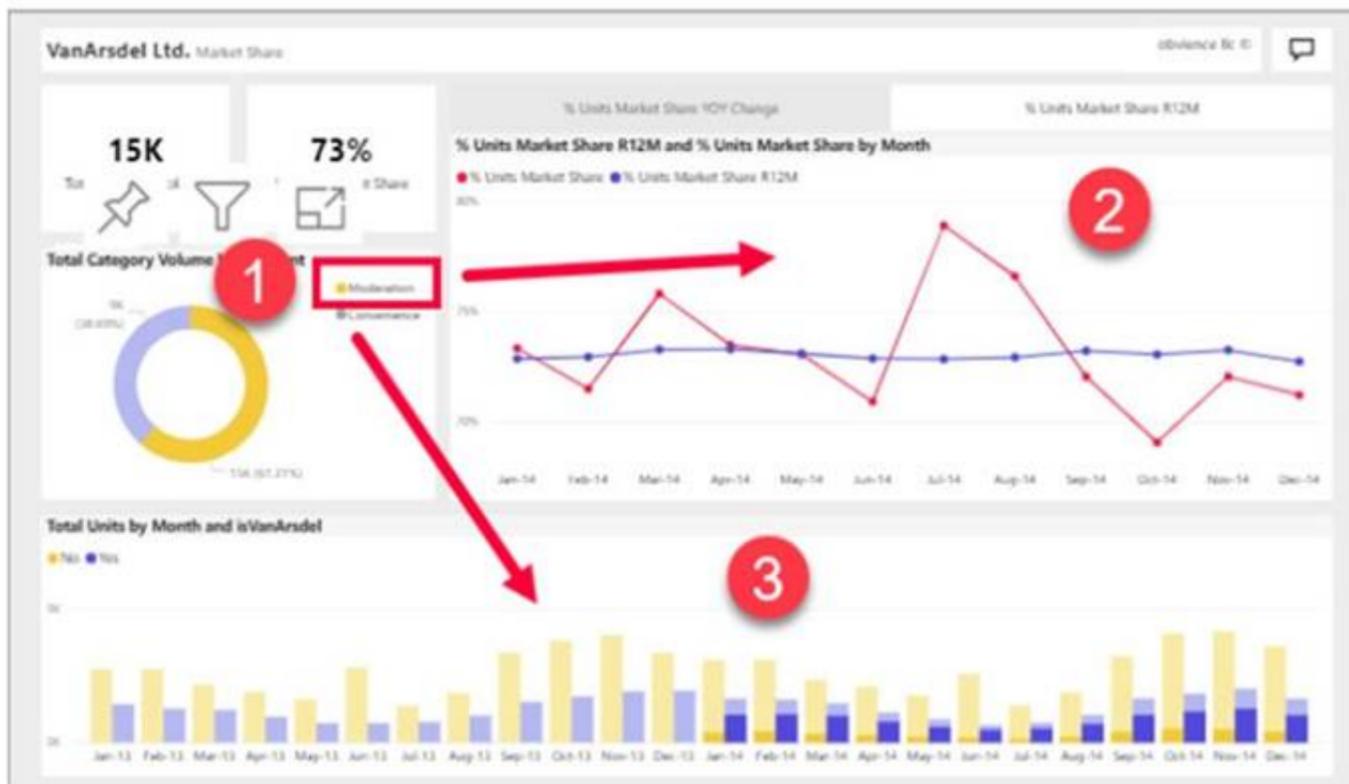
Box 2: cross-highlight

Example:

By default, selecting a data point in one visual on a report page will cross-filter or cross-highlight the other visuals on the page.



* 1. Let's see what happens when we select Moderation.



* 2. Cross-filtering removes data that doesn't apply. Selecting Moderation in the doughnut chart cross-filters the line chart. The line chart now only displays data points for the Moderation segment.

* 3. Cross-highlighting retains all the original data points but dims the portion that does not apply to your selection. Selecting Moderation in the doughnut chart cross-highlights the column chart. The column chart dims all the data that applies to the Convenience segment and highlights all the data that applies to the Moderation segment.

Reference:

<https://docs.microsoft.com/en-us/power-bi/consumer/end-user-interactions>

NEW QUESTION 72

- (Exam Topic 4)

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 scenario, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have several reports and dashboards in a workspace.

You need to grant all organizational users read access to a dashboard and several reports. Solution: You assign all the users the Viewer role to the workspace. Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

The Viewer role gives a read-only experience to its users. They can view dashboards, reports, or workbooks in the workspace, but can't browse the datasets or dataflows. Use the Viewer role wherever you would previously use a classic workspace set to "Members can only view Power BI content".

Reference:

<https://powerbi.microsoft.com/en-us/blog/announcing-the-new-viewer-role-for-power-bi-workspaces/>

NEW QUESTION 73

- (Exam Topic 4)

You need to create the On-Time Shipping report.

The report must include a visualization that shows the percentage of late orders. Which type of visualization should you create?

- A. scatterplot
- B. bar chart
- C. piechart

Answer: A

NEW QUESTION 75

- (Exam Topic 4)

You are developing a sales report that will have multiple pages. Each page will answer a different business question.

You plan to have a menu page that will show all the business questions.

You need to ensure that users can click each business question and be directed to the page where the question is answered. The solution must ensure that the menu page will work when deployed to any workspace.

What should you include on the menu page?

- A. Create a text box for each business question and insert a link.
- B. Create a button for each business question and set the action type to Bookmark.
- C. Create a Power Apps visual that contains a drop-down list.
- D. The drop-down list will contain the business questions.

Answer: B

Explanation:

When you create a bookmark, the following elements are saved with the bookmark: - The current page - Filters - Slicers, including slicer type (for example, dropdown or list) and slicer state - Visual selection state (such as cross-highlight filters) - Sort order - Drill location - Visibility of an object (by using the Selection pane) - The focus or Spotlight modes of any visible object

NEW QUESTION 77

- (Exam Topic 4)

You have a prospective customer list that contains 1,500 rows of data. The list contains the following fields: > First name

- > Last name
- > Email address
- > State/Region
- > Phone number

You import the list into Power Query Editor.

You need to ensure that the list contains records for each State/Region to which you want to target a marketing campaign.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Open the Advanced Editor.
- B. Select Column quality.
- C. Enable Column profiling based on entire dataset.
- D. Select Column distribution.
- E. Select Column profile.

Answer: CE

Explanation:

In Power query, the load preview by default is 1000 row. By default, the column quality also only looks at the first 1000 row. You can verify this by the status bar at the bottom of the Power query window. To change the profiling so it analyses the entire column of data, select the profiling status in the status bar. Then select Column profiling based on the entire data set.

<https://theexcelclub.com/data-profiling-views-in-power-query-excel-and-power-bi/>

NEW QUESTION 78

- (Exam Topic 4)

You have a power BI tenant that hosts the datasets shown in the following table.

| Name | Contents | Used to generate |
|------------|---|--|
| Sales | Sales targets Sales data Employee salary data | Daily performance reports Quarterly reports used to calculate bonuses |
| Operations | Environmental sensor data | Reports that show average sensor readings over time |
| Finance | Financial transaction data | Budget planning reports Monthly board reports |

You have the following requirements:

- The export of reports that contain Personally Identifiable Information (PII) must be prevented.
- Data used for financial decisions must be reviewed and approved before use.

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

Answer Area

| Statements | Yes | No |
|--|-----------------------|-----------------------|
| The Sales dataset requires a sensitivity label. | <input type="radio"/> | <input type="radio"/> |
| The Operations dataset requires a sensitivity label and must be certified. | <input type="radio"/> | <input type="radio"/> |
| The Finance dataset requires a sensitivity label and must be certified. | <input type="radio"/> | <input type="radio"/> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

| Statements | Yes | No |
|--|----------------------------------|----------------------------------|
| The Sales dataset requires a sensitivity label. | <input checked="" type="radio"/> | <input type="radio"/> |
| The Operations dataset requires a sensitivity label and must be certified. | <input type="radio"/> | <input checked="" type="radio"/> |
| The Finance dataset requires a sensitivity label and must be certified. | <input checked="" type="radio"/> | <input type="radio"/> |

NEW QUESTION 82

- (Exam Topic 4)

You have sales data in a star schema that contains four tables named Sales, Customer, Date, and Product. The Sales table contains purchase and ship dates. Most often, you will use the purchase date to analyze the data, but you will analyze the data by both dates independently and together. You need to design an imported dataset to support the analysis. The solution must minimize the model size and the number of queries against the data source. Which data modeling design should you use?

- A. Use the Auto Date/Time functionality in Microsoft Power BI and do NOT import the Date table.
- B. Duplicate the Date query in Power Query and use active relationships between both Date tables.
- C. On the Date table, use a reference query in Power Query and create active relationships between Sales and both Date tables in the modeling view.
- D. Create an active relationship between Sales and Date for the purchase date and an inactive relationship for the ship date.

Answer: D

Explanation:

Only one relationship can be active.

Note: If you query two or more tables at the same time, when the data is loaded, Power BI Desktop attempts to find and create relationships for you. The relationship options Cardinality, Cross filter direction, and Make this relationship active are automatically set.

Reference:

<https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-create-and-manage-relationships>

NEW QUESTION 84

- (Exam Topic 4)

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 are modeling data by using Microsoft Power BI. Part of the data model is a large Microsoft SQL Server table named Order that has more than 100 million records.

During the development process, you need to import a sample of the data from the Order table. Solution: You add a WHERE clause to the SQL statement. Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 85

- (Exam Topic 4)

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 scenario, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a clustered bar chart that contains a measure named Salary as the value and a field named Employee as the axis. Salary is present in the data as numerical amount representing US dollars.

You need to create a reference line to show which employees are above the median salary. Solution: You create a median line by using the Salary measure. Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

The 50th percentile is also known as the median or middle value where 50 percent of observations fall below. Reference: https://dash-intel.com/powerbi/statistical_functions_median.php

NEW QUESTION 86

- (Exam Topic 4)

You create a report by using Microsoft Power BI Desktop.

The report uses data from a Microsoft SQL Server Analysis Services (SSAS) cube located on your company's internal network.

You plan to publish the report to the Power BI Service.

What should you implement to ensure that users who consume the report from the Power BI Service have the most up-to-date data from the cube?

- A. a subscription
- B. a scheduled refresh of the dataset
- C. an OData feed
- D. an On-premises data gateway

Answer: D

Explanation:

When you've created dynamic reports in Power BI Desktop, you can share them by publishing to your Power BI site. When you publish a Power BI Desktop file with a live connection to a tabular model to your Power BI site, an on-premises data gateway must be installed and configured by an administrator.

NEW QUESTION 89

- (Exam Topic 4)

You have a dataset named Pens that contains the following columns:

- > Unit Price
- > Quantity Ordered

You need to create a visualization that shows the relationship between Unit Price and Quantity Ordered. The solution must highlight orders that have a similar unit price and ordered quantity.

Which type of visualization and which feature should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Visualization:

Feature:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: A scatter plot...

A scatter chart always has two value axes to show: one set of numerical data along a horizontal axis and another set of numerical values along a vertical axis. The chart displays points at the intersection of an x and y numerical value, combining these values into single data points. Power BI may distribute these data points evenly or unevenly across the horizontal axis. It depends on the data the chart represents.

Box 2: Automatically find clusters

Scatter charts are a great choice to show patterns in large sets of data, for example by showing linear or non-linear trends, clusters, and outliers.

Reference:

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-scatter>

NEW QUESTION 93

- (Exam Topic 4)

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 are modeling data by using Microsoft Power BI. Part of the data model is a large Microsoft SQL Server table named Order that has more than 100 million records.

During the development process, you need to import a sample of the data from the Order table. Solution: You write a DAX expression that uses the FILTER function.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The filter is applied after the data is imported. Instead add a WHERE clause to the SQL statement. Reference:
<https://docs.microsoft.com/en-us/power-bi/connect-data/service-gateway-sql-tutorial>

NEW QUESTION 98

- (Exam Topic 4)

You are enhancing a Power BI model that has DAX calculations.

You need to create a measure that returns the year-to-date total sales from the same date of the previous calendar year.

Which DAX functions should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

`Sales PYTD =`

`VAR startyear =`

`STARTOFYEAR (PREVIOUSYEAR ('Date' [Date]))`

`VAR enddate =`

`LASTDATE (Sales[Date]) - 365`

`RETURN`

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Reference:
<https://www.kasperonbi.com/get-the-ytd-of-the-same-period-last-year/>

NEW QUESTION 99

- (Exam Topic 4)

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 scenario, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have several reports and dashboards in a workspace.

You need to grant all organizational users read access to a dashboard and several reports.

Solution: You create an Azure Active Directory group that contains all the users. You share each report and dashboard to the group.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

Statements and questions are tricky and confusing. When the access is granted for the group (all users) for ALL (each) dashboards and ALL (each) reports in the workspace, then they will have read access to the specific (A, one) Dashboard and several reports, because they are part of all dashboards and reports. There is no statement, that for the other dashboards (except the one) and the other reports (except the several) that access must be prevented. They are also accessible (maybe it is not desired but not stated here).

NEW QUESTION 104

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