DUMPSARENA

Microsoft Power BI Data Analyst

Microsoft PL-300

Version Demo

Total Demo Questions: 15

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Topic Break Down

Topic	No. of Questions
Topic 1, Litware, Inc. Case Study	10
Topic 2, Contoso Ltd, Case Study	9
Topic 3, Northwind Traders	10
Topic 4, Misc. Questions	266
Total	295

QUESTION NO: 1

You have a Microsoft Excel file in a Microsoft OneDrive folder.

The file must be imported to a Power Bi dataset

You need to ensure that the dataset can be refreshed in powefbi.com.

Which two connectors can you use to connect to the file? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Text/CSV

B. Folder

C. Excel Workbook

D. SharePoint folder

E. Web

ANSWER: D E

Explanation:

- Copy and edit Path of the Excel file then use "Web" Connector: Option E

- Copy and edit Path of the OneDrive folder then use "Sharepoint Folder" connector: Option D

Source: https://www.youtube.com/watch?v=GGHbbg6yi-A

QUESTION NO: 2

You have a Microsoft Power BI report. The size of PBIX file is 550 MB. The report is accessed by using an App workspace in shared capacity of powerbi.com.

The report uses an imported dataset that contains one fact table. The fact table contains 12 million rows. The dataset is scheduled to refresh twice a day at 08:00 and 17:00.

The report is a single page that contains 15 custom visuals and 10 default visuals.

Users say that the report is slow to load the visuals when they access and interact with the report

You need to recommend a solution to improve the performance of the report.

What should you recommend?

A. Split the visuals onto multiple pages.

B. Implement row-level security (RLS).

C. Replace the default visuals with custom visuals.

D. Increase the number of times that the dataset is refreshed.

ANSWER: A

QUESTION NO: 3 - (HOTSPOT)

You are building a financial report by using Power BI.

You have a table named financials that contains a column named Date and a column named Sales.

You need to create a measure that calculates the relative change in sales as compared to the previous quarter.

How should you complete the measure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
Sales QoQ% =

IF (

    ISFILTERED('financials' [Date]),
    ERROR("Uh oh."),
    VAR PREV_QUARTER =
        [CALCULATE / CALCULATETABLE / DATEADD / DIVIDE / FILTER / FIND]
            SUM('financials'[Sales]),
            [CALCULATE / CALCULATETABLE / DATEADD / DIVIDE / FILTER / FIND]('financials'[Date].[Date], -1, QUARTER)
    )
RETURN
    [CALCULATE / CALCULATETABLE / DATEADD / DIVIDE / FILTER / FIND](SUM('financials' [Sales]) - PREV_QUARTER, PREV_QUARTER)
)
```

ANSWER:

Answer Area

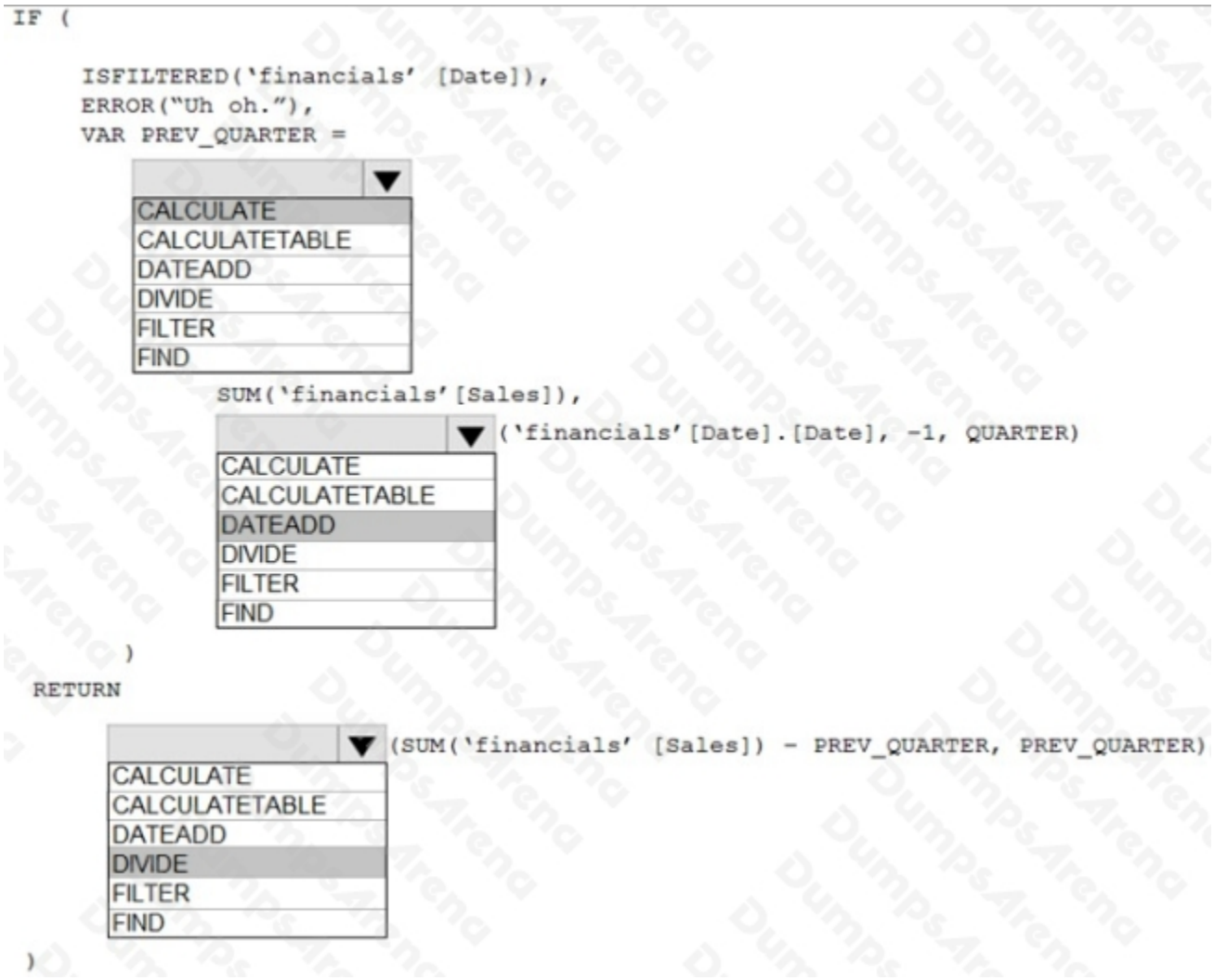
```
Sales QoQ% =

IF (

    ISFILTERED('financials' [Date]),
    ERROR("Uh oh."),
    VAR PREV_QUARTER =
        [CALCULATE ▼]
            SUM('financials'[Sales]),
            [CALCULATE ▼]('financials'[Date].[Date], -1, QUARTER)
    )
RETURN
    [CALCULATE ▼](SUM('financials' [Sales]) - PREV_QUARTER, PREV_QUARTER)
)
```

CALCULATE, CALCULATETABLE, DATEADD, DIVIDE, FILTER, FIND

CALCULATE, CALCULATETABLE, DATEADD, DIVIDE, FILTER, FIND

CALCULATE, CALCULATETABLE, DATEADD, DIVIDE, FILTER, FIND

Explanation:



Box 1: CALCULATE

Box 2: DATEADD

Box 3: DIVIDE

Example:

NET_SALES QoQ% =

IF(

ISFILTERED('Calendar'[Date]),

ERROR("Time intelligence quick measures can only be grouped or filtered by the Power BI-provided date hierarchy or primary date column."),

VAR __PREV_QUARTER =

CALCULATE(

SUM('research ra_qtr_template'[NET_SALES]),

DATEADD('Calendar'[Date].[Date], -1, QUARTER)

)

RETURN

DIVIDE(

SUM('research ra_qtr_template'[NET_SALES]) - __PREV_QUARTER,

__PREV_QUARTER

)

)

Reference:

https://community.powerbi.com/t5/Desktop/Error-calculating-QOQ-using-quick-measure/m-p/547054

QUESTION NO: 4

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is the same in each question in this series.

You have a Microsoft SQL Server database that contains the following tables.

Table name	Column name	Data type
Order	Order_ID	Integer
	Order_date	Integer
	Order_amount	Currency
	Customer_ID	Integer
	Order_ship_date	Integer
	Store_ID	Integer
Customer	Customer_ID	Integer
	First_name	Varchar(100)
	Last_name	Varchar(100)
	Customer_photo	Binary
Date	Date_ID	Integer
	Date_name	Datetime
	Month	Integer
	Week	Integer
	Year	Integer
Monthly_returns	Month_ID	Integer
	Total_returns	Float
	Store_ID	Varchar(100)
Store	Store_ID	Integer
	Name	Varchar(100)
	City	Varchar(100)
	Sales_target	Float

The following columns contain date information:

- Date[Month] in the mmyyyy format

- Date[Date_ID] in the ddmmyyyy format

- Date[Date_name] in the mm/dd/yyyy format

- Monthly_returns[Month_ID] in the mmyyyy format

The Order table contains more than one million rows.

The Store table has a relationship to the Monthly_returns table on the Store_ID column. This is the only relationship between the tables.

You plan to use Power BI Desktop to create an analytics solution for the data.

You need to create a relationship between the Order table and the Store table on the Store_ID column.

What should you do before you create the relationship?

A. In the Order table query, use the Table.TrasformRows function.

B. In the Store table query, use the Table.TrasformRows function.

C. In the Store table query, use the Table.TrasformColumnTypes function.

D. In the Order table query, use the Table.TrasformColumnTypes function.

ANSWER: C

QUESTION NO: 5

In Power BI Desktop, you are creating a report that will contain three pages.

You need to create a custom tooltip page and prepare the page for use.

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

A. Configure filters on the target visual.

B. For the target page, set Allow use as tooltip to On.

C. Add and configure visuals on the tooltip page.

D. For the tooltip page, set Allow use as tooltip to On.

E. For the tooltip page, configure filters.

ANSWER: B C D

Explanation:

You can create a custom tooltip page that shows more details about the selected category, such as this:

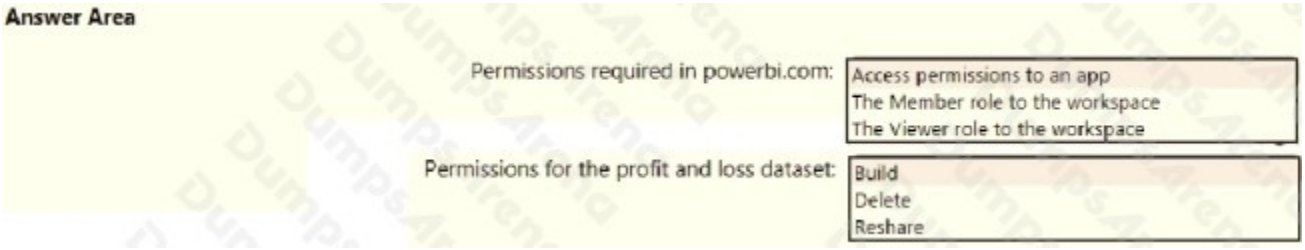
To create a custom tooltip page and prepare it for use, you need to perform these three actions34:

QUESTION NO: 6 - (HOTSPOT)

You need to grant access to the business unit analysts.

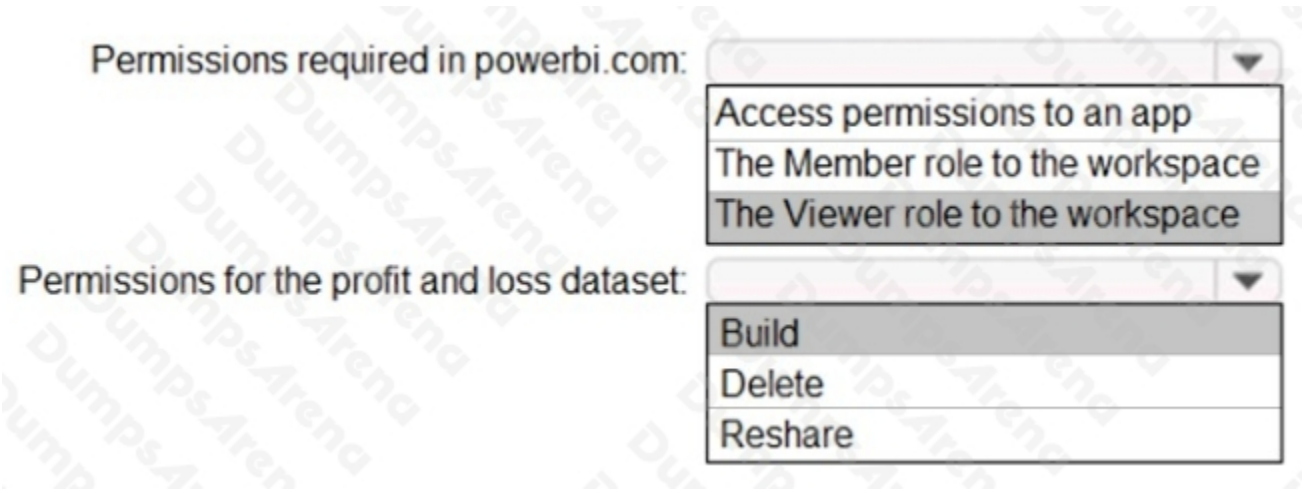
What should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



ANSWER:

Explanation:



Box 1: The Viewer role to the workspace

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".

Capability	Admin	Member	Contributor	Viewer
Update and delete the workspace.	X			
Add/remove people, including other admins.	X			
Add members or others with lower permissions.	X	X		
Publish and update an app.	X	X		
Share an item or share an app.	X	X		
Allow others to reshare items.	X	X		
Create, edit, and delete content in the workspace.	X	X	X	
Publish reports to the workspace, delete content.	X	X	X	
View an item.	X	X	X	X
Create a report in another workspace based on a dataset in this workspace.	X	X	X	X [1]
Copy a report.	X	X	X	X [1]

Box 2: Build

The analysts must be able to build new reports from the dataset that contains the profit and loss data.

Scenario: The reports must be made available to the board from powerbi.com.

The analysts responsible for each business unit must see all the data the board sees, except the profit and loss data, which must be restricted to only their business unit's data. The analysts must be able to build new reports from the dataset that contains the profit and loss data, but any reports that the analysts build must not be included in the quarterly reports for the board. The analysts must not be able to share the quarterly reports with anyone.

Reference:

https://www.nickyvv.com/2019/08/the-new-power-bi-workspace-viewer-role-explained.html

QUESTION NO: 7

You have a collection of reports for the HR department of your company. The datasets use row-level security (RLS). The company has multiple sales regions that each has an HR manager. You need to ensure that the HR managers can interact with the data from their region only. The HR managers must be prevented from changing the layout of the reports. How should you provision access to the reports for the HR managers?

A. Create a new workspace, copy the datasets and reports, and add the HR managers as members of the workspace.

B. Publish the reports to a different workspace other than the one hosting the datasets.

C. Publish the reports in an app and grant the HR managers access permission.

D. Add the HR managers as members of the existing workspace that hosts the reports and the datasets.

ANSWER: C

Explanation:

Note: Row-level security (RLS) with Power BI can be used to restrict data access for given users. Filters restrict data access at the row level, and you can define filters within roles. In the Power BI service, members of a workspace have access to datasets in the workspace. RLS doesn't restrict this data access.

Reference:

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

QUESTION NO: 8

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: A E

Explanation:

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

QUESTION NO: 9 - (SIMULATION)

You have a Power B1 model that contains a table named Date. The table has the following columns.

Name	Sample value
Date	2022-06-01
Year	2022
Month Number	6
Month Name	June
Year Month	2022 Jun

ANSWER: seetheexpalanationfortheanswerbelow.

Explanation:

Answer is below.

QUESTION NO: 10 - (DRAG DROP)

You are modifying a Power Bi model by using Power BI Desktop.

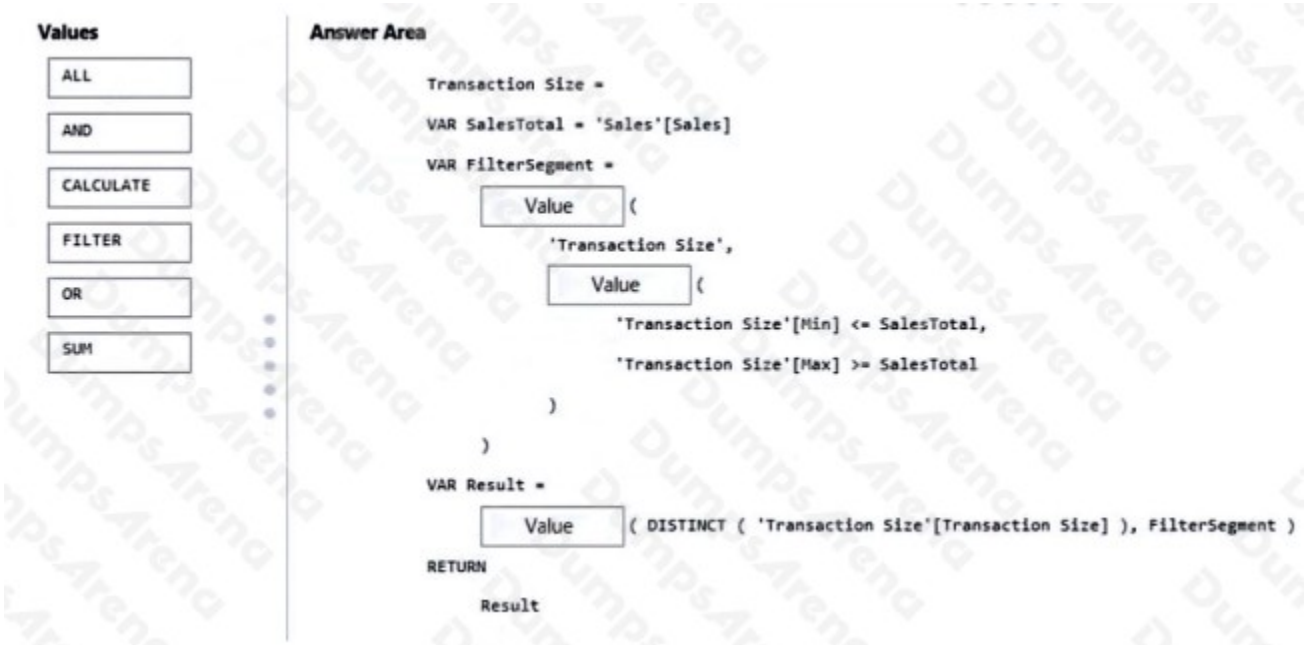
You have a table named Sales that contains the following fields.

Name	Data type
Transaction ID	Whole Number
Customer Key	Whole Number
Sales Date Key	Date
Sales Amount	Whole Number

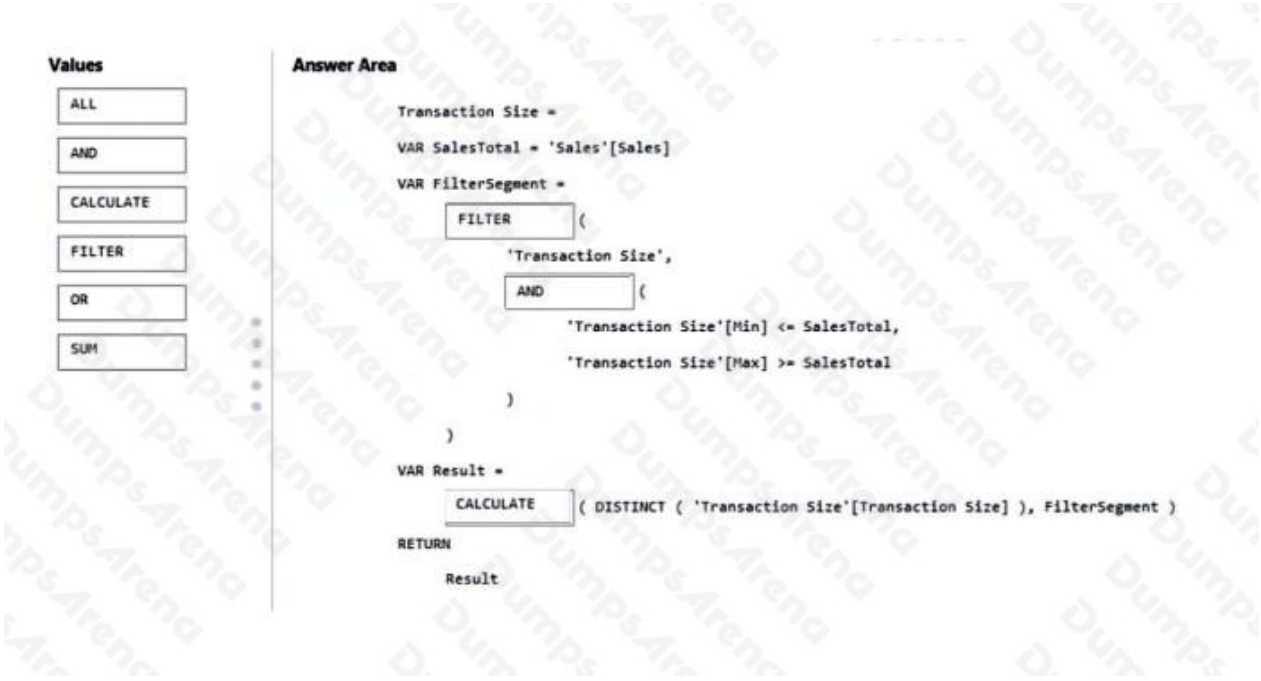
You have a table named Transaction Size that contains the following data.

Transaction Size ID	Transaction Size	Min	Max
1	Small	0	10,000
2	Medium	10,001	100,000
3	Large	100,001	999,999,999

You need to create a calculated column to classify each transaction as small, medium, or large based on the value in Sales Amount.How should you complete the code? To answer, drag the appropriate values to the correct 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.



ANSWER:



Explanation:

FILTER | AND | CALCULATE

QUESTION NO: 11 - (SIMULATION)

You have a Power 31 data model that contains a table named Stores. The table has the following columns:

* Store Name

* Open Date

* Status

* State

* City

You need to create a calculated column named Active Store Name that meets the following requirements:

ANSWER: seetheexplanationforanswer.

Explanation:

Answer is as below

```
Active Store Name = IF ([Status] = "A", [Store Name], "Inactive - " & [Store Name])
```

QUESTION NO: 12 - (DRAG DROP)

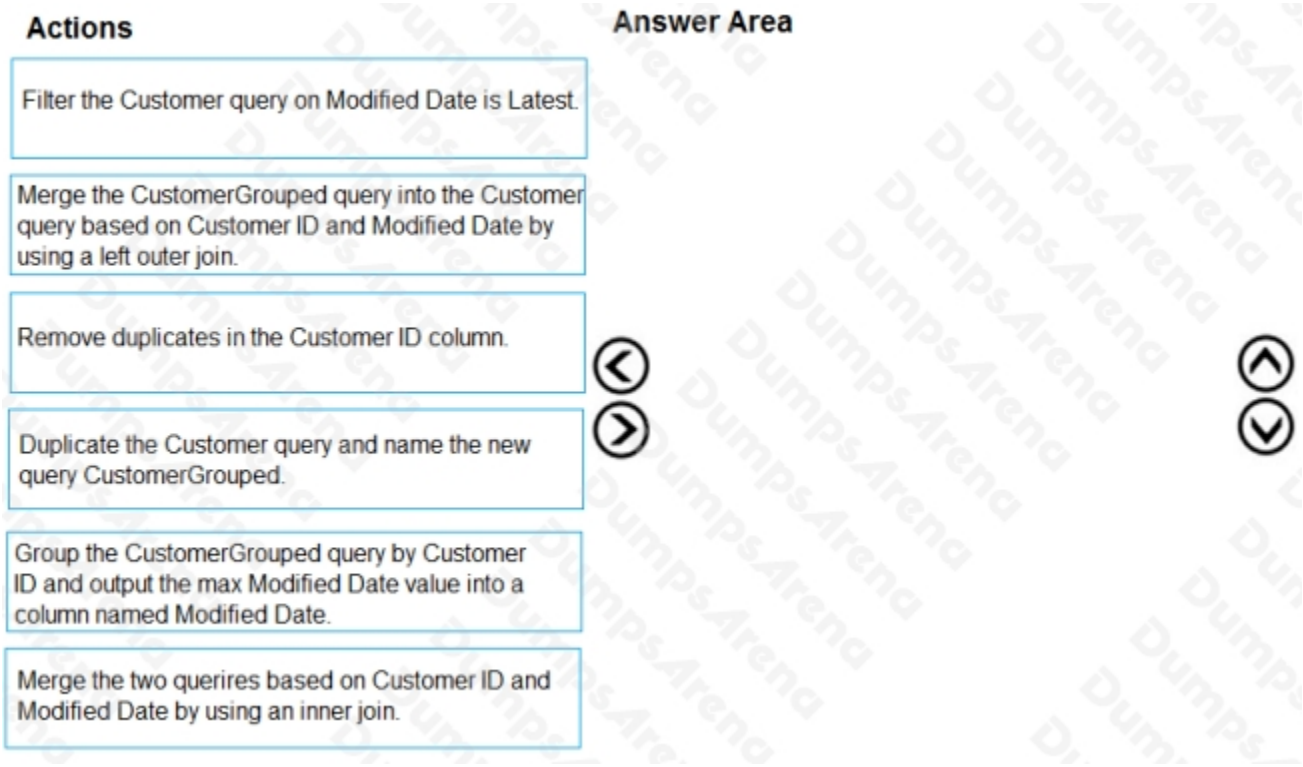
You have a query named Customer that imports CSV files from a data lake. The query contains 500 rows as shown in the exhibit. (Click the Exhibit tab.)

	Source.Name	Customer ID	Modified Date	Customer	Category
	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%
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

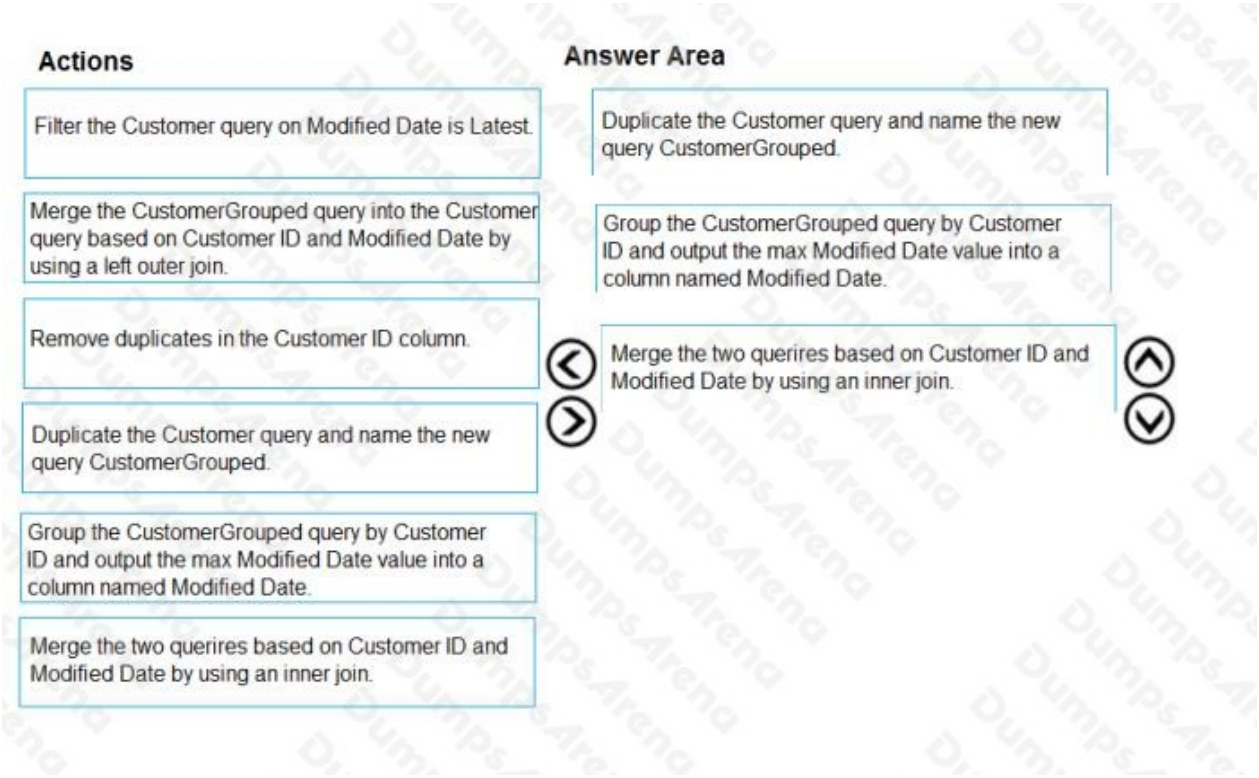
Each file contains deltas of any new or modified rows from each load to the data lake. Multiple files can have the same customer ID.

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.



ANSWER:



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 retreive other customer informations related to latest Date)

QUESTION NO: 13

You have a Power BI report that contains five pages.

Pages 1 to 4 are visible and page 5 is hidden.

You need to create a solution that will enable users to quickly navigate from the first page to all the other visible pages. The solution must minimize development and maintenance effort as pages are added to the report.

What should you do first?

A. Add a blank button to page 1.

B. Add a bookmark navigation button to page 1.

C. Create a bookmark for each page.

D. Add a page navigation button to page 1.

ANSWER: C

QUESTION NO: 14

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

QUESTION NO: 15

You plan to use Power BI Desktop optimized for Power BI Report Server to create a report. The report will be published to Power BI Report Server.

You need to ensure that all the visualization in the report can be consumed by users.

Which two types of visualizations should you exclude from the report? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Funnel charts

B. Custom visuals

C. Bubble maps

D. Breadcrumbs

E. R visuals

ANSWER: D E

Explanation:

References: https://powerbi.microsoft.com/en-us/guided-learning/reportserver-quickstart-powerbi-report/