



DA-100^{Q&As}

Analyzing Data with Microsoft Power BI

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QUESTION 1

You need to address the data concerns before creating the data model. What should you do in Power Query Editor?

- A. Select Column distribution.
- B. Select the sales_amount column and apply a number filter.
- C. Select Column profile, and then select the sales_amount column.
- D. Transform the sales_amount column to replace negative values with 0.

Correct Answer: D

Scenario: Data Concerns

You are concerned with the quality and completeness of the sales data. You plan to verify the sales data for negative sales amounts.

How to convert negative numbers into positive numb, editor and right click, select

transform, and choose absolute value. That would give the positive number outcome you\\re looking for.

Reference:

<https://www.xspdf.com/resolution/50510644.html>

QUESTION 2

You have a table that contains sales data and approximately 1,000 rows. You need to identify outliers in the table. Which type of visualization should you use?

- A. area chart
- B. donut chart
- C. scatter plot
- D. pie chart

Correct Answer: C

Outliers are those data points that lie outside the overall pattern of distribution and the easiest way to detect outliers is through graphs. Box plots, Scatter plots can help detect them easily.

Reference:

<https://towardsdatascience.com/this-article-is-about-identifying-outliers-through-funnel-plots-using-the-microsoft-power-bi-d7ad16ac9ccc>

QUESTION 3



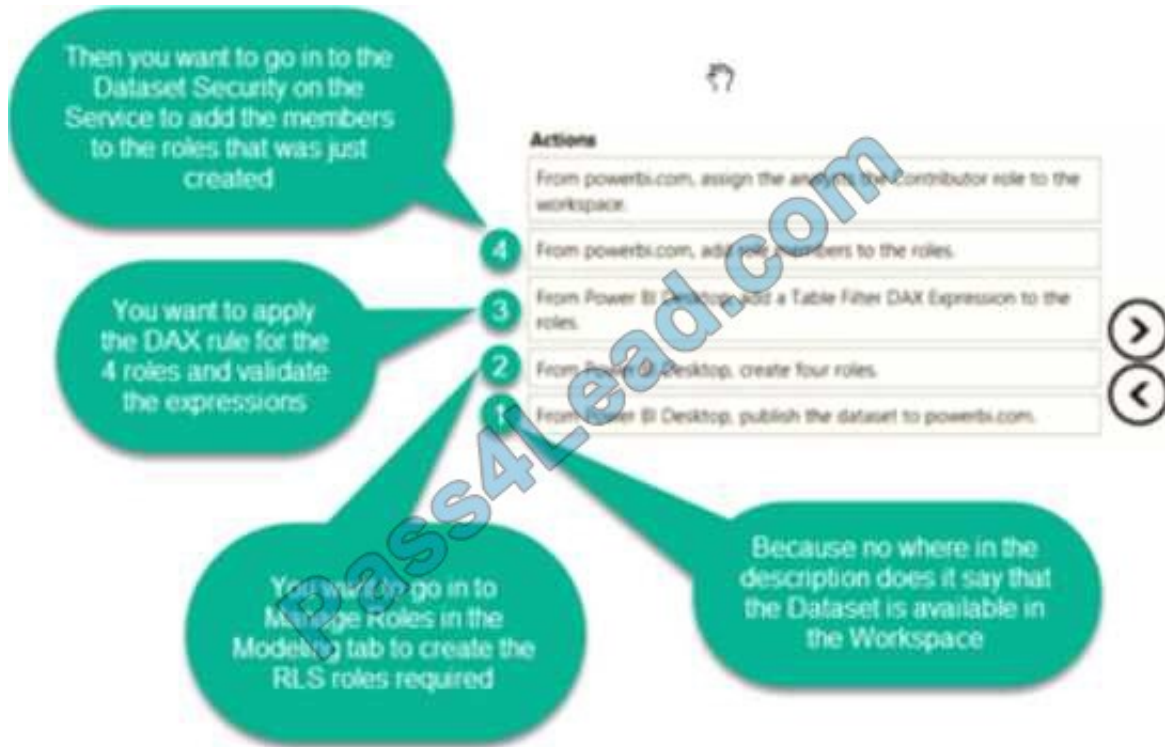
DRAG DROP Once the profit and loss dataset is created, which four actions should you perform in sequence to ensure that the business unit analysts see the appropriate profit and loss data? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions	Answer Area
From powerbi.com, assign the analysts the Contributor role to the workspace.	
From powerbi.com, add role members to the roles.	
From Power BI Desktop, add a Table Filter DAX Expression to the roles.	
From Power BI Desktop, create four roles.	
From Power BI Desktop, publish the dataset to powerbi.com.	

Correct Answer:

Actions	Answer Area
From powerbi.com, assign the analysts the Contributor role to the workspace.	From Power BI Desktop, publish the dataset to powerbi.com.
From powerbi.com, add role members to the roles.	From Power BI Desktop, create four roles.
From Power BI Desktop, add a Table Filter DAX Expression to the roles.	From Power BI Desktop, add a Table Filter DAX Expression to the roles.
From Power BI Desktop, create four roles.	From powerbi.com, add role members to the roles.
From Power BI Desktop, publish the dataset to powerbi.com.	



<https://docs.microsoft.com/en-us/power-bi/admin/service-admin-rls> <https://docs.microsoft.com/en-us/power-bi/connect-data/service-datasets-build-permissions>

QUESTION 4

HOTSPOT

You need to create a visual as shown in the following exhibit.



MonthName	Total Sales	Sales Last Year	% Growth to Last Year
January	£559,263.79	£144,365.51	74.19%
February	£583,915.29	£215,923.28	63.02%
March	£684,091.92	£211,347.46	69.11%
April	£957,666.49	£350,270.97	63.43%
May	£841,473.26	£310,708.65	63.08%
June	£876,911.71	£296,356.83	65.98%
July	£922,410.09	£348,435.28	62.23%
August	£1,002,255.24	£388,213.68	61.26%
September	£657,976.22	£407,595.76	64.65%
October	£626,647.67	£465,583.06	63.13%
November	£555,548.44	£555,548.44	0.00%
December	£553,615.45	£553,615.45	0.00%
Total	£9,952,759.56	£4,249,964.36	57.30%

The indicator color for Total Sales will be based on % Growth to Last Year.

The solution must use the existing calculations only.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Conditional formatting:

- Background color
- Data bars
- Font color
- Icons
- Web URL

Format by:

- Color scale
- Field value
- Rules

Correct Answer:



Answer Area



Box 1: Background color

To format the Color column based on its field values, select Conditional formatting for the Color field, and then select Background color or Font color.

In the Background color or Font color dialog box, select Field value from the Format by drop-down field.

Box 2: Field value

With conditional formatting for tables in Power BI Desktop, you can specify customized cell colors, including color gradients, based on field values.

QUESTION 5

HOTSPOT

Your company has affiliates who help the company acquire customers.

You build a report for the affiliate managers at the company to assist them in understanding affiliate performance.

The managers request a visual showing the total sales value of the latest 50 transactions for each affiliate. You have a data model that contains the following tables.

Table name	Column name
Transactions	TransactionDate
	ItemsOrdered
	Amount
	TransactionID
Affiliate	AffiliateID
	Name

You need to develop a measure to support the visual.

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.



Hot Area:

Revenue Last 50 Transactions =

SQL Query Builder interface showing a query for "Revenue Last 50 Transactions".

The query structure is as follows:

```

SELECT
    (
        CALCULATE
        CONCATENATEX
        SUM
        SUMX
        TOPN
    )
    (Transactions[Amount]),
    (50, Transactions, Transactions
    TransactionID]
    [Amount],
    [ItemsOrdered],
    [TransactionDate],
DESC)
    )
  
```

The dropdown menus for the first three sub-queries are currently empty.

Correct Answer:

Revenue Last 50 Transactions =

SQL Query Builder interface showing the correct query for "Revenue Last 50 Transactions".

The query structure is as follows:

```

SELECT
    (
        CALCULATE
        CONCATENATEX
        SUM
        SUMX
        TOPN
    )
    (Transactions[Amount]),
    (50, Transactions, Transactions
    TransactionID]
    [Amount],
    [ItemsOrdered],
    [TransactionDate],
DESC)
    )
  
```

The dropdown menus are populated with the following options:

- Box 1: CALCULATE
- Box 2: SUMX
- Box 3: TOPN
- Box 4: [TransactionDate],

Box 1: CALCULATE



Start with CALCULATE and use a SUMX.

CALCULATE evaluates an expression in a modified filter context.

Box 2: SUMX

SUMX returns the sum of an expression evaluated for each row in a table. The following sample creates a measure with the sales of the top 10 sold products. = SUMX(TOPN(10, SUMMARIZE(Product, [ProductKey], "TotalSales", SUMX

(RELATED(InternetSales_USD[SalesAmount_USD]), InternetSales_USD[SalesAmount_USD]) +
SUMX(RELATED(ResellerSales_USD[SalesAmount_USD]), ResellerSales_USD[SalesAmount_USD]))

Box 3: TOPN

TOPN returns the top N rows of the specified table.

Box 4: [TransactionDate]

TOPN Syntax: TOPN(, , [[, , []]...])

The orderBy_expression: Any DAX expression where the result value is used to sort the table and it is evaluated for each row of table.

Reference:

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

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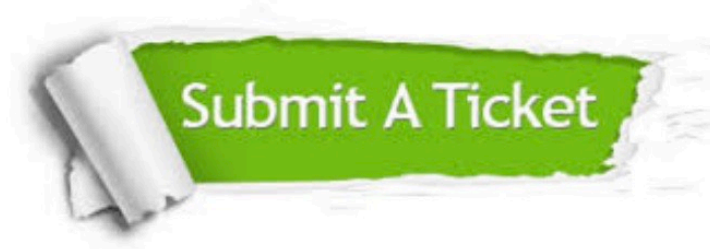
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