



DA-100^{Q&As}

Analyzing Data with Microsoft Power BI

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QUESTION 1

You plan to create the chart shown in the following exhibit.



How should you create the dashed horizontal line denoting the 40th percentile of daily sales for the period shown?

- A. Create a horizontal line that has a fixed value of 24,000.
- B. Add a measure to the visual that uses the following DAX expression. $\text{Measure1} = \text{PERCENTUEX.EXC}(\text{Sales}, \text{Sales}[\text{Total Sales}], ?40)$
- C. Add a new percentile line that uses Total Sales as the measure and 40% as the percentile.
- D. Add a measure to the visual that uses the following DAX expression. $\text{Measure1} = \text{PERCENTILEX.INC}(\text{Sales}, \text{Sales}[\text{Total Sales}], 6.40)$

Correct Answer: C

The analytics feature enables you to show percentiles across groups specified along a specific axis.

Example:

1.

Click on the analytics tab

2.

Select Percentile

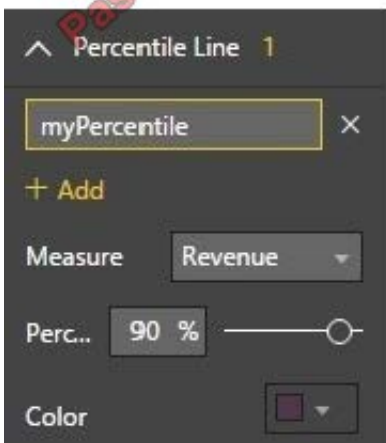
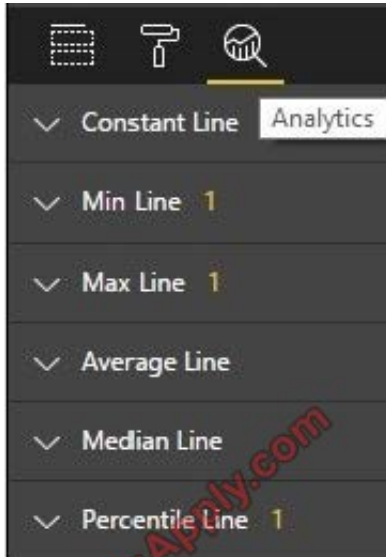
3.



You can choose a specific percentile along with other formatting options.

4.

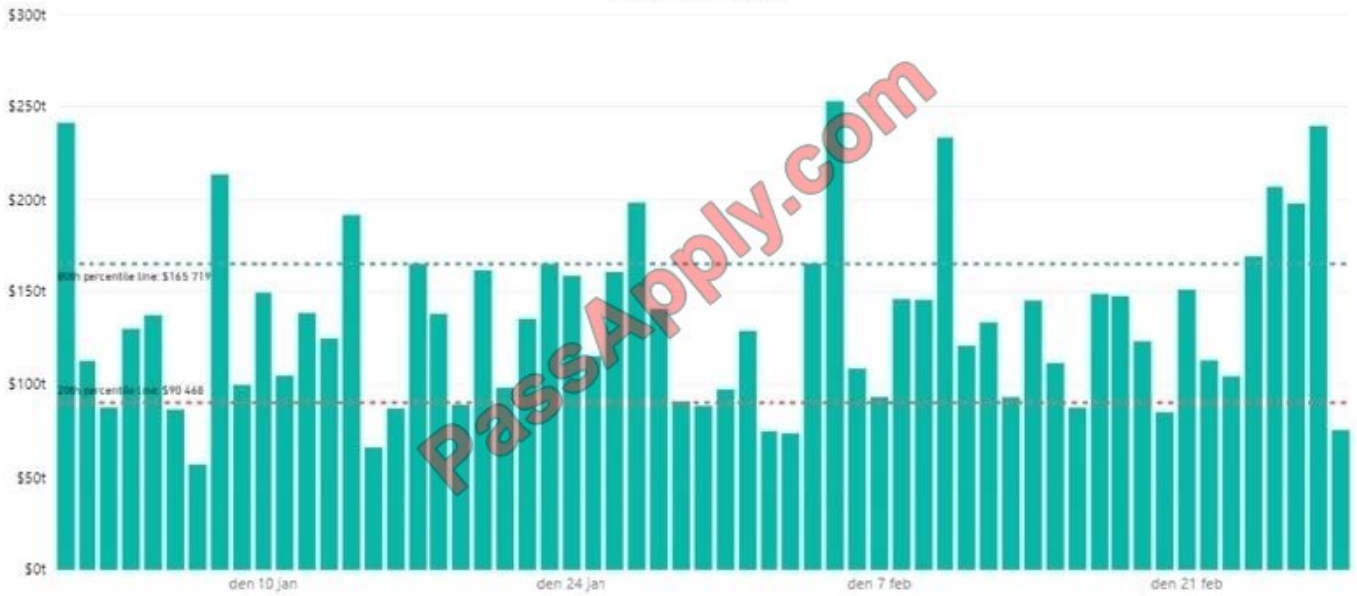
Drag a date or non-numeric dimension into the Axis of a column chart



Add percentile lines to monitor daily revenue



Daily Revenue



QUESTION 2

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 constant line and set the value to .5.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Instead create a percentile line by using the Salary measure and set the percentile to 50%.

Note: 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_percentile.php



QUESTION 3

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 =

▼ (

CALCULATE
CONCATENATEX
SUM
SUMX
TOPN

▼ (Transactions[Amount]),

CALCULATE
CONCATENATEX
SUM
SUMX
TOPN

▼ (50, Transactions, Transactions

CALCULATE
CONCATENATEX
SUM
SUMX
TOPN

▼

TransactionID]
[Amount],
[ItemsOrdered],
[TransactionDate],

DESC)

)



Correct Answer:

Revenue Last 50 Transactions =

(

(Transactions[Amount]),

(50, Transactions, Transactions

DESC)

)

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>



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

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

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/>

QUESTION 5

Your company has employees in 10 states.

The company recently decided to associate each state to one of the following three regions: East, West, and North.

You have a data model that contains employee information by state. The model does NOT include region information.

You have a report that shows the employees by state.

You need to view the employees by region as quickly as possible.

What should you do?

A. Create a new aggregation that summarizes by employee.

B. Create a new group on the state column and set the Group type to List.

C. Create a new group on the state column and set the Group type to Bin.

D. Create a new aggregation that summarizes by state.



Correct Answer: C

With grouping you are normally working with dimensional attributes. Here we add three new groups (East, West, and North) and add each state to the appropriate group.

Reference: <https://www.mssqltips.com/sqlservertip/4720/binning-and-grouping-data-with-power-bi/>

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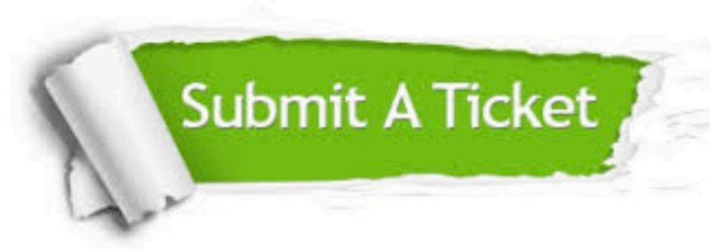
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