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Analyzing Data with Microsoft Power BI

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QUESTION 1

HOTSPOT

You are creating a column chart visualization.

You configure groups as shown in the Groups exhibit. {Click the Groups tab.)

The visualization appears as shown in the Chart exhibit. (Click the Chart tab.)

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

Hot Area:

Answer Area

Statements	Yes	No
The data is segmented into 10 groups.	○	○
The data was split into deciles.	○	○
To increase the bin size, you must decrease the bin count.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
The data is segmented into 10 groups.	○	○
The data was split into deciles.	○	○
To increase the bin size, you must decrease the bin count.	○	○

QUESTION 2

You have a line chart that shows the number of employees in a department over time.

You need to see the total salary costs of the employees when you hover over a data point.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Add a salary to the tooltips.

B. Add a salary to the visual filters.

C. Add salary to the drillthrough fields.

Correct Answer: AB

A: When a visualization is created, the default tooltip displays the data point\\'s value and category. There are many instances when customizing the tooltip information is useful. Customizing tooltips provides additional context and information

for users viewing the visual. Custom tooltips enable you to specify additional data points that display as part of the tooltip.

B: Visual Filter applies to a single visual/tile on a report page. You can only see visual level filters selected visual on the report canvas.

Reference:

https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-custom-tooltips https://technovids.com/power-bi-filters/

QUESTION 3

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: 2018-12-31 at 08:59.

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

What should you do?

A. Apply the Parse function from the Date transformations options to the Logged column.

B. Create a column by example that starts with 2018-12-31.

C. Add a conditional column that outputs 2018 if the Logged column starts with 2018 and set the data type of the new column to Whole Number.

D. Create a column by example that starts with 2018-12-31 and set the data type of the new column to Date.

Correct Answer: D

To use a built-in-date hierarchy, you need to set the data type of the new column to Date.

Reference: https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-add-column-from-example https://www.exceljetconsult.com.ng/home/blog/power-query-split-date-and-time-into-separate-columns/

QUESTION 4

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.)

ABC Source.Name	1²₃ Customer ID	Modified Date	ABC Customer	ABC Category
• Valid 100%	• Valid 100%	• Valid 100%	• Valid 100%	• Valid 100%
• Error 0%	• Error 0%	• Error 0%	• Error 0%	• Error 0%
• Empty 0%	• Empty 0%	• Empty 0%	• Empty 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.
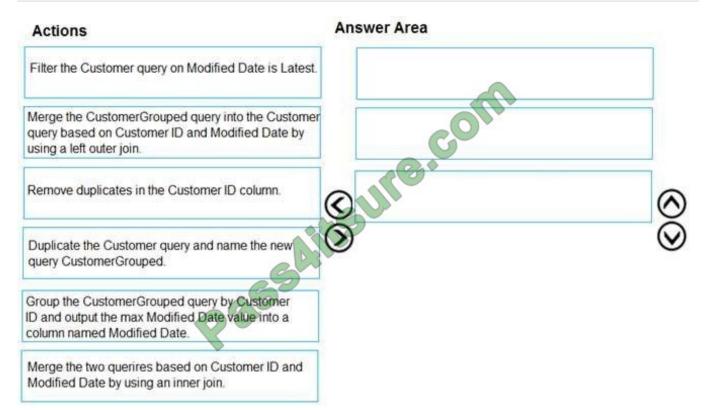
Multiple files can have the same customer ID.

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.
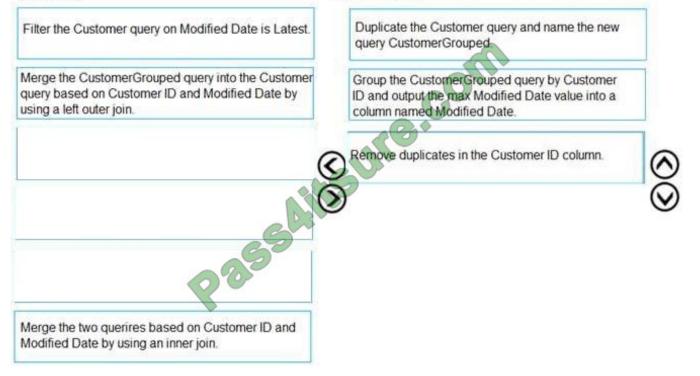
Select and Place:

Actions

| 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 querires based on Customer ID and Modified Date by using an inner join. |

Answer Area

Correct Answer:

Actions

| 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. |

| |

| |

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

Answer Area

| 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. |

| Remove duplicates in the Customer ID column. |

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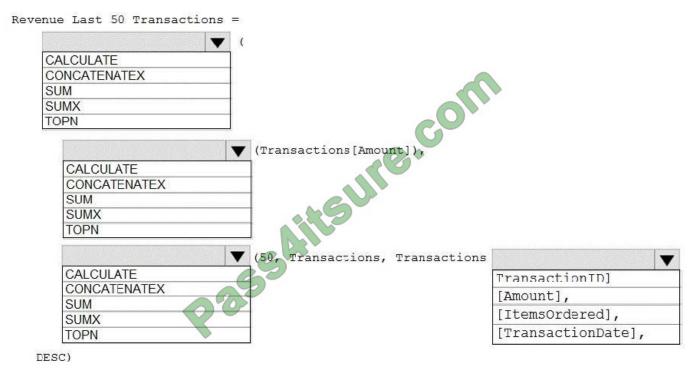
Table name	Column name
Transactions	TransactionDate
	ItemsOrdered
	Amount
	TransactionID
Affiliate	AffiliateID
	Name

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 =

▼	(
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

▼	(Transactions[Amount]),
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

▼	(50, Transactions, Transactions	▼
CALCULATE		TransactionID]
CONCATENATEX		[Amount],
SUM		[ItemsOrdered],
SUMX		[TransactionDate],
TOPN		

DESC)

)

Correct Answer:

```
Revenue Last 50 Transactions =
```

CALCULATE ▼	(
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

SUMX ▼	(Transactions[Amount]),
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

TOPN ▼	(50, Transactions, Transactions	▼
CALCULATE		TransactionID]
CONCATENATEX		[Amount],
SUM		[ItemsOrdered],
SUMX		[TransactionDate],
TOPN		

```
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