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Microsoft Power BI Data Analyst

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QUESTION 1

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.

From Power Query Editor, you profile the data shown in the following exhibit.

The IOT ID columns are unique to each row in query.

You need to analyze 10T events by the hour and day of the year. The solution must improve dataset performance.

Solution: You change the IOT DateTime column to the Date data type.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

B is correct because changing the IoT DateTime column to the Date data type alone will not meet the goal of analyzing IoT events by the hour and day of the year in power query.

QUESTION 2

You build a Power BI report that displays 10T temperature data streaming from a refrigerator.

You publish the report to the BI service.

You need to be notified when the temperature rises above four degrees Celsius.

What should you do?

A. Pin a report page to a dashboard and set an alert on the page.

B. Set an alert on a KPI visual in the report.

C. Pin a card visual to a dashboard and set an alert on the tile.

D. Pin a card visual to a dashboard and create a subscription.

Correct Answer: A

QUESTION 3

You have a Power BI workspace that contains a dataset. a report, and a dashboard. The following groups have access:

1.

 External users can access the dashboard.

2.

 Managers can access the dashboard and a manager-specific report.

3.

 Employees can access the dashboard and a row-level security (RLS) constrained report.

You need all users, including the external users, to be able to tag workspace administrators if they identify an issue with the dashboard. The solution must ensure that other users see the issues that were raised.

What should you use?

A. subscriptions

B. comments

C. alerts

D. chat in Microsoft Teams

Correct Answer: A

QUESTION 4

You have a Power BI model that contains the following data.

Table name	Column name	Description	Data type
Date	Date	Calendar date	Date
	Month	Calendar month	Text
	Year	Calendar year	Integer
Sales	Sale	Sales value	Decimal number
	Date	Calendar date	Date

The Date table relates to the Sales table by using the Date columns.

The model contains the following DAX measure.

Total Sales = SUM(Sales[Sale])

You need to create another measure named Previous Quarter to display the sales one quarter before the selected period.

Which DAX calculation should you use?

A. CALCULATE

B. CALCULATE ([Total Sales], DATESQTD (Date[Date]))

C. TOTALQTD ([Total Sales], Date[Date])

D. CALCULATE

Correct Answer: A

QUESTION 5

You are using the key influencers visual to identify which factors affect the quantity of items sold in an order.

You add the following fields to the Explain By field:

Customer Country Product Category Supplier Country Sales Employee Supplier Name Product Name Customer City

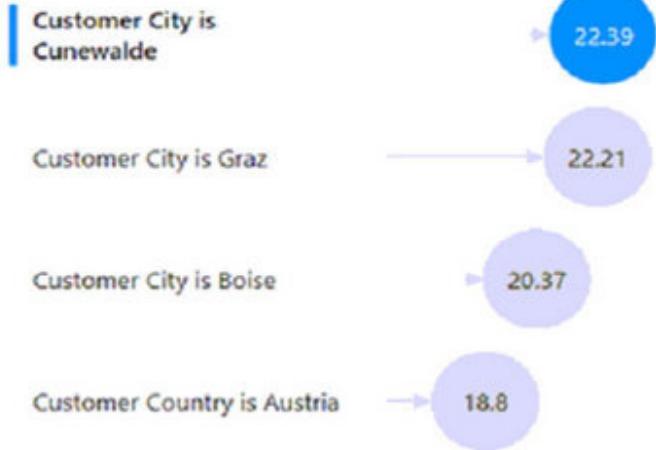The key influencers visual returns the results shown in the following exhibit.
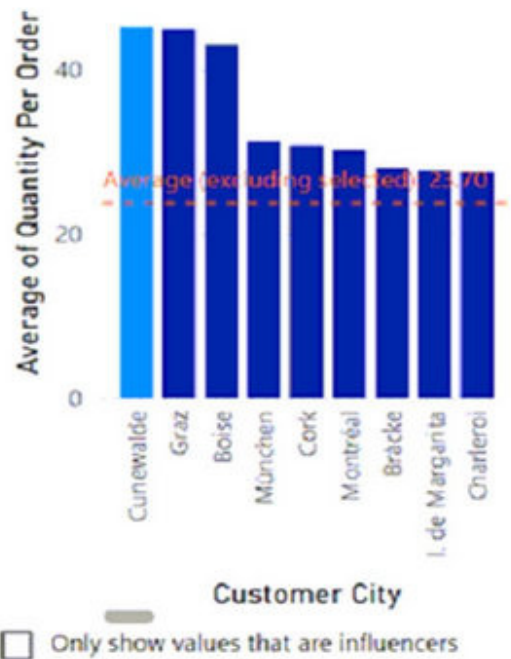
What can you identify from the visual?

A. Customers in Austria order 18.8 more units than the average order quantity.

B. Customers in Boise order 20.37 percent more than the average order quantity.

C. Product Category positively influences the quantity per order.

D. Customers in Cork order lower quantities than average.

Correct Answer: A

Average quantity of units is displayed.

Incorrect:

Not B: Average quantity of units is displayed, not percentage.

Reference:

https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-influencers

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QUESTION 6

You create a dataset sourced from dozens of flat files in Azure Blob storage. The dataset uses incremental refresh.

From powerbi.com, you deploy the dataset and several related reports to Microsoft Power BI Premium capacity.

You discover that the dataset refresh fails after the refresh runs out of resources.

What is a possible cause of the issue?

A. Query folding is not occurring.

B. You selected Only refresh complete periods.

C. The data type of the column used to partition the data changed.

D. A filter is missing on the report.

Correct Answer: A

The Power BI service partitions data based on date range. This is what enables only certain partitions to be refreshed incrementally. To make this work, the partition filter conditions are pushed down to the source system by including them in the queries. Using Power Query terminology, this is called "query folding". It is not recommended that incremental refresh is used when the required query folding cannot take place.

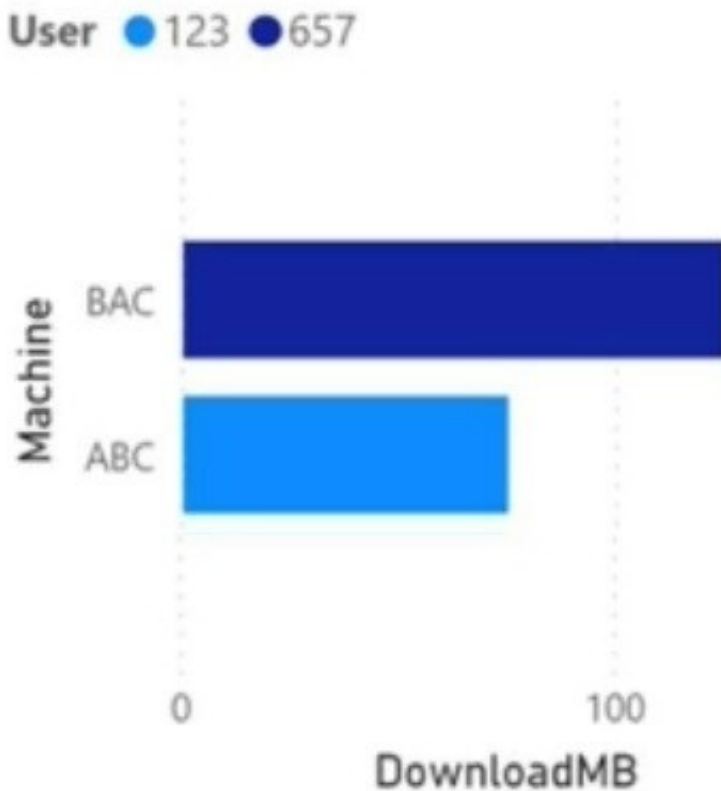Reference: https://powerbi.microsoft.com/en-us/blog/incremental-refresh-query-folding/

QUESTION 7

You are building a data model for a Power BI report. You have data formatted as shown in the following table.

Machine-User	DownloadMB
ABC-123	75
BAC-657	125

You need to create a clustered bar chart as shown in the following exhibit.

What should you do?

A. From Power Query Editor, split the Machine-User column by using a delimiter.

B. In a DAX function, create two calculated columns named Machine and User by using the substitute function.

C. From Power Query Editor, create a column that contains the last three digits of the Machine-User column.

D. in a DAX function, create two measures named Machine and User by using the substitute function.

Correct Answer: A

QUESTION 8

You are creating a Power BI report by using Power Bi Desktop. You need to include a visual that shows trends and other useful information automatically. The visual must update based on selections in other visuals. Which type of visual should you use?

A. key influencers

B. decomposition tree

C. QandA

D. smart narrative

Correct Answer: A

QUESTION 9

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.

From Power Query Editor, you profile the data shown in the following exhibit.

A^B_C IoT GUID		IoT DateTime		1²₃ IoT ID	
● Valid	100%	● Valid	100%	● Valid	100%
● Error	0%	● Error	0%	● Error	0%
● Empty	0%	● Empty	0%	● Empty	0%
1	48196321-38D9-EC11-BB3D-0022489A2...		21/05/2022 18:59:25		100001000
2	49196321-38D9-EC11-BB3D-0022489A2...		21/05/2022 18:59:26		100001001
3	0300C742-38D9-EC11-BB3D-0022489A2...		21/05/2022 19:00:21		100001002
4	0400C742-38D9-EC11-BB3D-0022489A2...		21/05/2022 19:00:21		100001003
5	0500C742-38D9-EC11-BB3D-0022489A2...		21/05/2022 19:00:21		100001004
6	0600C742-38D9-EC11-BB3D-0022489A2...		21/05/2022 19:00:21		100001005

The IOT ID columns are unique to each row in query.

You need to analyze 10T events by the hour and day of the year. The solution must improve dataset performance.

Solution: You create a custom column that concatenates the 10T GUID column and the IoT ID column and then delete the IoT GUID and IoT ID columns.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 10

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

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

Answer Area

Correct Answer:

Actions

| From powerbi.com, assign the analysts the Contributor role to the workspace. |

Answer Area

| From Power BI Desktop, publish the dataset to powerbi.com. |
| From Power BI Desktop, create four roles. |
| From Power BI Desktop, add a Table Filter DAX Expression to the roles. |
| From powerbi.com, add role members to the roles. |

Scenario: 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.

Define roles and rules in Power BI Desktop

You can define roles and rules within Power BI Desktop. When you publish to Power BI, it also publishes the role definitions.

To define security roles, follow these steps.

1.

Import data into your Power BI Desktop report, or configure a DirectQuery connection. (step 1: From Power BI Desktop, publish the dataset to powerbi.com)

2.

From the Modeling tab, select Manage Roles.

3.

From the Manage roles window, select Create.

(Step 2: From Power BI Desktop, create four roles.)

4.

Under Roles, provide a name for the role.

5.

Under Tables, select the table to which you want to apply a DAX rule.

6.

In the Table filter DAX expression box, enter the DAX expressions. This expression returns a value of true or false. For example: [Entity ID] = "Value". (Step 3: From Power BI Desktop, add Table Filter DAX Expression to the roles.)

7.

After you\'ve created the DAX expression, select the checkmark above the expression box to validate the expression.

Step 4: From powerbi.com, add role members to the roles.

You can\'t assign users to a role within Power BI Desktop. You assign them in the Power BI service.

Reference:

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

Manage roles

Roles   Tables

[Create]   Delete

Table filter DAX expression   [✓]   [✗]

[Region] = "East"

---

8. Select Save.

QUESTION 11

DRAG DROP

You have a Power BI model that contains a table named Sales. Sales has the following three measures:

A measure named Total Sales Last Year that displays the sales from the previous calendar year. The current value is 32.89 million. A measure named Total Sales This Year that displays the sales from the current calendar year. The current value is 11.69 million. A measure named Total Sales Difference that uses a DAX formula of Sales[Last Year] ?Sales[This Year].

You need to create the following visualization.

11.69M   32.89M

How should you configure the visualization? To answer, drag the appropriate measures to the correct fields. 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.

Select and Place:

Measures	Answer Area
Total Sales Difference	Value:
Total Sales Last Year	Maximum value:
Total Sales This Year	Target value:

Correct Answer:

Measures	Answer Area	
Total Sales Difference	Value:	Total Sales This Year
Total Sales Last Year	Maximum value:	Total Sales Last Year
Total Sales This Year	Target value:	Total Sales Last Year

References: https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-radial-gauge-charts

QUESTION 12

You have data in a Microsoft Excel worksheet as shown in the following table.

	A	B	C
1	SKU	price	discount
2	P00001	100	0.08
3	P00002	150	0.03
4	P00003	130	#DIV/0!
5	P00004	200	0.06
6	P00005	80	#NAME?
7	P00006	350	#N/A
8	P00007	100	#NULL!
9	P00008	200	0.05
10	P00009	135	#NUM!
11	P00010	90	#REF!
12	P00011	120	#VALUE!

You need to use Power Query to clean and transform the dataset. The solution must meet the following requirements:

If the discount column returns an error, a discount of 0.05 must be used.

All the rows of data must be maintained.

Administrative effort must be minimized.

What should you do in Power Query Editor?

A. Select Keep Errors

B. Edit the query in the Query Errors group.

C. Select Replace Errors

D. Select Remove Errors.

Correct Answer: C

QUESTION 13

HOTSPOT

You are creating a Microsoft Power BI data model that has the tables shown in the following table.

Table name	Column name
Sales	SalesID
	ProductID
	DateKey
	SalesAmount
Products	ProductID
	ProductName
	ProductCategoryID
ProductCategory	ProductCategoryID
	CategoryName

The Products table is related to the ProductCategory table through the ProductCategoryID column.

You need to ensure that you can analyze sales by product category.

How should you configure the relationships from Products to ProductCategory? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Cardinality:
- One-to-many
- One-to-one
- Many-to-many

Cross-filter direction:
- Single
- Both

Correct Answer:

Cardinality:
- **One-to-many**
- One-to-one
- Many-to-many

Cross-filter direction:
- Single
- **Both**

Box 1: One-to-many

Box 2: Both

For One-to-many relationships, the cross filter direction is always from the "one" side, and optionally from the "many" side (bi-directional).

Note:

Cardinality type	Cross filter options
One-to-many (or Many-to-one)	Single Both
One-to-one	Both
Many-to-many	Single (Table1 to Table2) Single (Table2 to Table1) Both

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

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