



PL-300^{Q&As}

Microsoft Power BI Data Analyst

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**QUESTION 1**

You have a report in Power BI named report1 that is based on a shared dataset.

You need to minimize the risk of data exfiltration for report1. The solution must prevent other reports from being affected.

What should you do?

- A. Clear Allow recipients to share your dashboard and Allow users to build new content using the underlying datasets for the dataset.
- B. Select the Allow end users to export both summarized and underlying data from the service or Report Server Export data option for the report.
- C. Select the Don't allow end users to export any data from the service or Report Server Export data option for the report.
- D. Apply row-level security (RLS) to the shared dataset.

Correct Answer: C

QUESTION 2

You have sales data in a star schema that contains four tables named Sales, Customer, Date, and Product. The Sales table contains purchase and ship dates.

Most often, you will use the purchase date to analyze the data, but you will analyze the data by both dates independently and together.

You need to design an imported dataset to support the analysis. The solution must minimize the model size and the number of queries against the data source.

Which data modeling design should you use?

- A. Use the Auto Date/Time functionality in Microsoft Power BI and do NOT import the Date table.
- B. Duplicate the Date query in Power Query and create active relationships between Sales and both Date tables in the modeling view.
- C. On the Date table, use a reference query in Power Query and create active relationships between Sales and both Date tables in the modeling view.
- D. Import the Date table twice in Power Query and create active relationships between Sales and both Date tables in the modeling view.

Correct Answer: D

Microsoft recommends defining active relationships whenever possible. They widen the scope and potential of how your model can be used by report authors, and users working with QandA.

Refactoring methodology (example): Here's a methodology to refactor a model from a single role-playing dimension-type table, to a design with one table per role.



Remove any inactive relationships.

Consider renaming the role-playing dimension-type table to better describe its role. In the example, the Airport table is related to the ArrivalAirport column of the Flight table, so it's renamed as Arrival Airport. Create a copy of the role-playing

table, providing it with a name that reflects its role. If it's an Import table, we recommend defining a calculated table. If it's a DirectQuery table, you can duplicate the Power Query query.

Only one relationship can be active.

Note: If you query two or more tables at the same time, when the data is loaded, Power BI Desktop attempts to find and create relationships for you. The relationship options Cardinality, Cross filter direction, and Make this relationship active

are automatically set.

Reference:

<https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-create-and-manage-relationships>

<https://docs.microsoft.com/en-us/power-bi/guidance/relationships-active-inactive>

QUESTION 3

You plan to embed multiple visualization in a public website.

Your Power BI infrastructure contains the visualizations configured as shown in the following table.

Visualization name	Characteristic
Visual1	Uses row-level security (RLS)
Visual2	Uses a dataset that is stored in Microsoft OneDrive for Business
Visual3	Contained in a report that was shared to your user account
Visual4	Is a custom visual
Visual5	Uses a dataset from an on-premises Microsoft SQL Server Analysis Services (SSAS) database

Which two visualizations can you embed into the website? Each correct answer presents a complete the solution.

NOTE: Each correct selection is worth one point.

A. Visual1

B. Visual2

C. Visual3



D. Visual4

E. Visual5

Correct Answer: BD

References: <https://docs.microsoft.com/en-us/power-bi/service-publish-to-web>

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 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 median line by using the Salary measure. Does this meet the goal?

A. Yes

B. No

Correct Answer: B

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_median.php

QUESTION 5

ion have a Power BI dataset that contains a table named Temperature Readings. Temperature Readings contains the columns shown in the following table.

Name	Data type	Value example
DateTime	DateTime	4-Aug-2020 13:30:01
Longitude	Decimal	10.049567988755534
Latitude	Decimal	53.462766759577057
TempCelsius	Decimal	12.5

The table has 12 million rows. All the columns are needed for analysis.

You need to optimize the dataset to decrease the model size. The solution must not affect the precision of the data.



What should you do?

- A. Split the DateTime column into separate date and time columns.
- B. Disable the Power Query load.
- C. Round the Longitude column two decimal places.
- D. Change the data type of the TempCelsius column to Integer

Correct Answer: B

Disable Power Query load.

Power Query queries that are intended support data integration with other queries should not be loaded to the model. To avoid loading the query to the model, take care to ensure that you disable query load in these instances.

Reference:

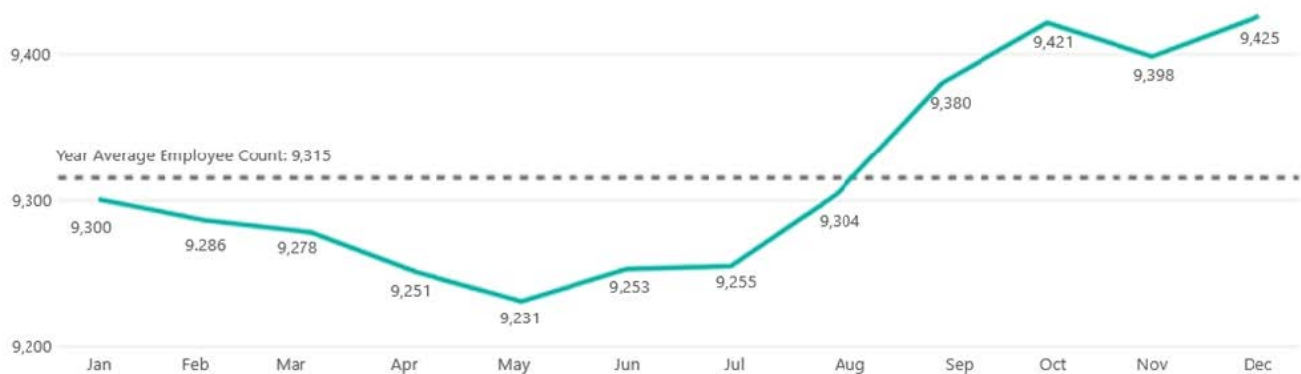
<https://docs.microsoft.com/en-us/power-bi/guidance/import-modeling-data-reduction#disable-power-query-query-load>

QUESTION 6

HOTSPOT

You are creating a line chart in a Power BI report as shown in the following exhibit.

Prior Year Employee Count By Month



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

The dashed line representing the Year Average Employee Count was created by using [answer choice]

	▼
a trend line	
a secondary axis	
an average reference line	
two measures in the Values bucket	

To enable users to drill down to weeks or days, add the Weeks and Days field to the [answer choice] bucket.

	▼
Axis	
Values	
Legend	
Secondary values	

Correct Answer:

Answer Area

The dashed line representing the Year Average Employee Count was created by using [answer choice]

	▼
a trend line	
a secondary axis	
an average reference line	
two measures in the Values bucket	

To enable users to drill down to weeks or days, add the Weeks and Days field to the [answer choice] bucket.

	▼
Axis	
Values	
Legend	
Secondary values	

Reference: <https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-analytics-pane>
<https://sqldusty.com/2015/10/14/drill-down-with-power-bi-visualizations/>

QUESTION 7

You build a report to help the sales team understand its performance and the drivers of sales. The team needs to have a single visualization to identify which factors affect success. Which type of visualization should you use?

- A. Key influences
- B. Funnel chart
- C. QandA
- D. Line and clustered column chart

Correct Answer: A



The key influencers visual helps you understand the factors that drive a metric you're interested in. It analyzes your data, ranks the factors that matter, and displays them as key influencers.

The key influencers visual is a great choice if you want to:

See which factors affect the metric being analyzed. Contrast the relative importance of these factors. For example, do short-term contracts have more impact on churn than long-term contracts?

Reference:

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

QUESTION 8

You have a Power BI report named Report1 and a dashboard named Dashboard1. Report1 contains a line chart named Sales by month.

You pin the Sales by month visual to Dashboard1.

In Report1, you change the Sales by month visual to a bar chart.

You need to ensure that the bar chart displays on Dashboard1.

What should you do?

- A. Refresh the dataset used by Report1 and Dashboard1.
- B. Select Refresh visuals for Dashboard1.
- C. Edit the details for the dashboard tile Of Dashboard1.
- D. Pin the Sales by month bar chart to Dashboard1.

Correct Answer: A

QUESTION 9

You have a sales system that contains the tables shown in the following table.

Table name	Column name
Sales	sales_ID
	sales_date
	sales_amount
Date	DateID
	Month
	Week
	Year

The Date table is marked as a date table.



DateID is the date data type. You need to create an annual sales growth percentage measure.

Which DAX expression should you use?

- A. `SUM(sales[sales_amount]) - CALCULATE(SUM(sales[sales_amount]), SAMEPERIODLASTYEAR('Date'[DateID]))`
- B. `(SUM('Sales'[sales_amount]) - CALCULATE(SUM('Sales'[sales_amount]), SAMEPERIODLASTYEAR('Date'[DateID]))) / CALCULATE(SUM('Sales'[sales_amount]), SAMEPERIODLASTYEAR('Date'[DateID]))`
- C. `CALCULATE(SUM(sales[sales_amount]), DATESYTD('Date'[DateID]))`
- D. `CALCULATE(SUM(sales[sales_amount]), SAMEPERIODLASTYEAR('Date'[DateID]))`

Correct Answer: B

SAMEPERIODLASTYEAR returns a table that contains a column of dates shifted one year back in time from the dates in the specified dates column, in the current context.

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

QUESTION 10

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. Change the data type of the Logged column to Date.
- B. Apply a transform to extract the last 11 characters of the Logged column and set the data type of the new column to Date.
- C. Create a column by example that starts with 2018-12-31 and set the data type of the new column to Date.
- D. Apply a transform to extract the first 11 characters of the Logged column.

Correct Answer: C

QUESTION 11

DRAG DROP

You have the Power BI data model shown in the following exhibit.

You create two row-level security (RLS) roles named Manager and CFO.

You plan to publish the dataset to the Power BI service.

You need to create DAX expressions for the RLS filters. The solution must meet the following requirements:



1.

Each manager must see only the data in the Sales and Human Resources tables for their own country.

2.

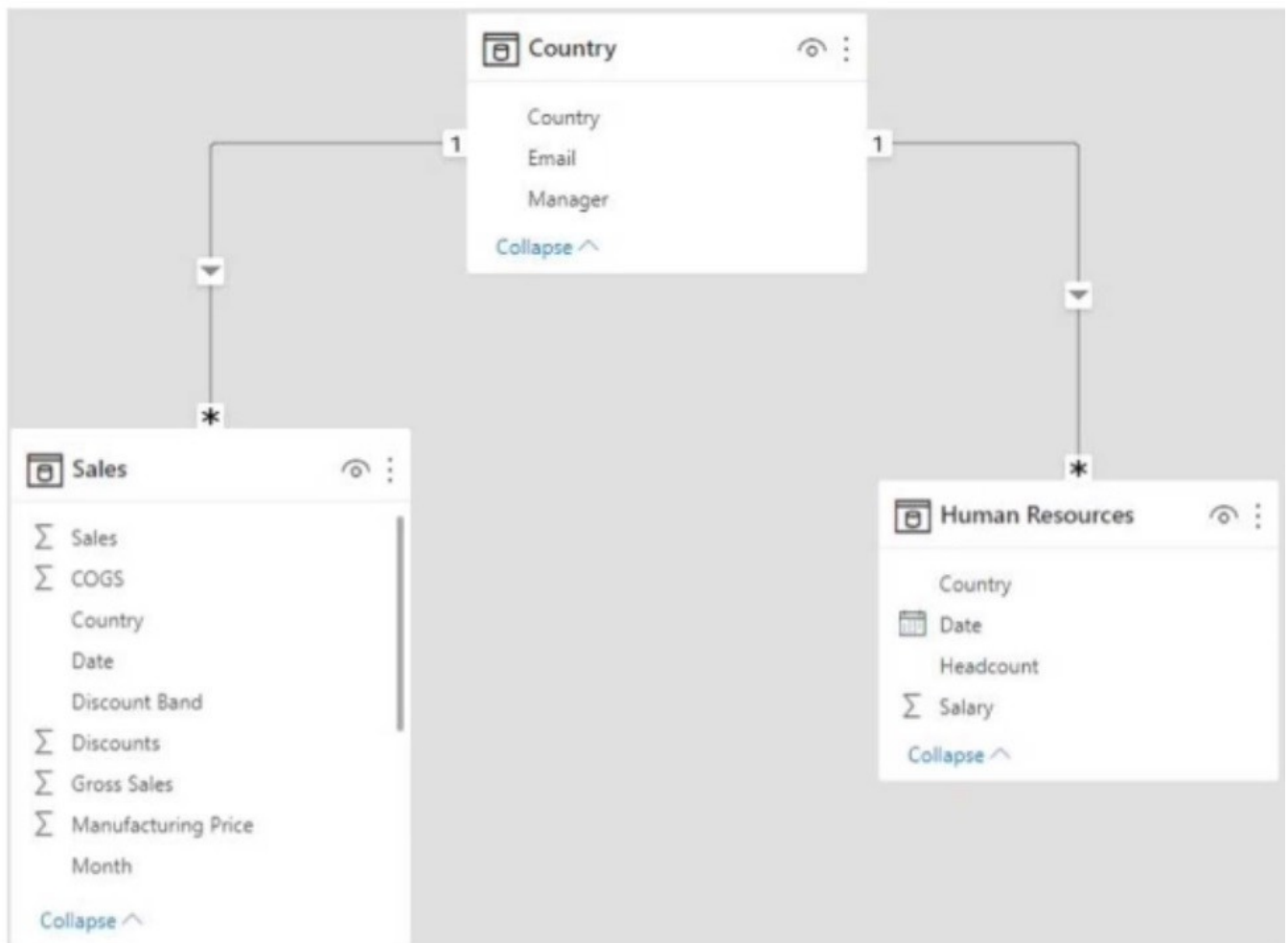
The CFO must be prevented from seeing the data in the Human Resources table.

3.

The CFO must see the sales data of all countries.

How should you complete the DAX expressions to meet the requirements? To answer, drag the appropriate expressions to the correct targets. Each expression 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.



The Country table contains the following data.



Country	Manager	Email
USA	CFO	cfo@msn.com
France	Phillipe	phillipe@msn.com
Brazil	Juan	juan@msn.com
Singapore	Srini	srini@msn.com

You plan to publish the dataset to the Power BI service.

You need to create DAX expressions for the RLS filters. The solution must meet the following requirements:

1.

Each manager must see only the data in the Sales and Human Resources tables for their own country.

2.

The CFO must be prevented from seeing the data in the Human Resources table.

3.

The CFO must see the sales data of all countries.

How should you complete the DAX expressions to meet the requirements? To answer, drag the appropriate expressions to the correct targets. Each expression 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:



Table Filter DAX Expression

[Country]= "USA"

[Email]= userprincipalname()

[Manager]= "CFO"

False()

True()

Answer Area

Human Resources:

Country:

Correct Answer:



Table Filter DAX Expression

[Manager]= "CFO"

False()

True()

Answer Area

Human Resources:

[Email]= userprincipalname()

Country:

[Country]= "USA"

QUESTION 12

You have a BI dataset and a connected report.

You need to ensure that users can analyze data in Microsoft Excel by connecting directly to the dataset.

You grant the users the Build permission for dataset

What Should do next?

- A. Change default visual interaction for the report
- B. For the report change the Export data setting to Summarized data, data with current layout and underlying data
- C. For the report, change the Export data setting to None



D. Certify the dataset used by the report.

Correct Answer: B

QUESTION 13

HOTSPOT

You have a Power BI report that contains the table visual shown in the following exhibit.

OrderDate	Total Sales	Total Cost
01-Oct-22	10.75	8.06
03-Oct-22	98.50	73.88
07-Oct-22	43.00	32.25
11-Oct-22	25.99	19.49
12-Oct-22	156.00	117.00
15-Oct-22	40.80	30.60

You need to modify the visual to display as shown in the following exhibit.

	01-Oct-22	03-Oct-22	07-Oct-22	11-Oct-22	12-Oct-22	15-Oct-22	Total
Total Cost	8.06	73.88	32.25	19.49	117.00	30.60	281.28
Total Sales	10.75	98.50	43.00	25.99	156.00	40.80	375.04

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:

Type:

Table	▼
Matrix	
Multi-row card	
Table	

Format:

Set Rows subtotals to Off.	▼
Set Rows subtotals to Off.	
Set Stepped layout to Off.	
Set Switch values to rows to On.	

Correct Answer:



Type:

Table	▼
Matrix	
Multi-row card	
Table	

Format:

Set Rows subtotals to Off.	▼
Set Rows subtotals to Off.	
Set Stepped layout to Off.	
Set Switch values to rows to On.	

QUESTION 14

You are creating a visual to show the ranking of product categories by sales revenue.

Your company's security policy states that you cannot send data outside of your Microsoft Power BI tenant

Which approach provides the widest variety of visuals while adhering to the security policy?

- A. Use default visuals or custom visuals uploaded from a .pbviz file.
- B. Use only default visuals.
- C. Use default or any custom visuals from the marketplace.
- D. Use default or certified custom visuals.

Correct Answer: C

QUESTION 15**HOTSPOT**

You have a Power BI report named Orders that supports the following analysis:

1.

Total sales over time

2.

The count of orders over time

3.

New and repeat customer counts

The data model size is nearing the limit for a dataset in shared capacity. The model view for the dataset is shown in the following exhibit.



The data view for the Orders table is shown in the following exhibit.

OrderID	CustomerID	OrderDate	ProductID
10293	TORTU	8/29/1996 12:00:00 AM	18
10294	TORTU	8/29/1996 12:00:00 AM	63
10295	TORTU	8/29/1996 12:00:00 AM	75
10296	RATTC	8/29/1996 12:00:00 AM	1

UnitPrice	Quantity	Discount	SalesTotal
\$50	12	0	600
\$35.1	5	0	175.5
\$6.2	6	0	37.2
\$14.4	18	0	259.2

The Orders table relates to the Customers table by using the CustomerID column.

The Orders table relates to the Date table by using the OrderDate column.

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**

Summarizing Orders by the CustomerID, OrderID, and OrderDate columns will reduce the model size while still supporting the current analysis.

☐ ☐

Removing the CustomerID column from Orders will reduce the model size while still supporting the current analysis.

☐ ☐

Removing the UnitPrice and Discount columns from Orders will reduce the model size while still supporting the current analysis.

☐ ☐

Correct Answer:

Answer Area**Statements****Yes No**

Summarizing Orders by the CustomerID, OrderID, and OrderDate columns will reduce the model size while still supporting the current analysis.

☐ ☒

Removing the CustomerID column from Orders will reduce the model size while still supporting the current analysis.

☐ ☒

Removing the UnitPrice and Discount columns from Orders will reduce the model size while still supporting the current analysis.

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