PL-300Q&As

Microsoft Power BI Data Analyst

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QUESTION 1

You have the dashboard shown in the following exhibit.

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

What should you do?

A. Create and apply a custom dashboard theme.

B. Change the colors of the visuals in the report.

C. Apply the Dark dashboard theme.

D. Upload a snapshot image of the dashboard.

Correct Answer: A

The visual colors can\\'t be changed on the dashboard from a report after the visual has already been pinned. Applying a dashboard custom theme will do it.

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 section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI report that imports a date table and a sales table from an Azure SQL database data source. The sales table has the following date foreign keys:

1.

Due Date

2.

Order Date

3.

Delivery Date

You need to support the analysis of sales over time based on all the date foreign keys.

Solution: For each date foreign key, you add inactive relationships between the sales table and the date table.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

You can reference an inactive relationship whit DAX function USERELATIONSHIP(), but using DAX is not mentioned here.

So follow this refactory methodology:

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.

Source: https://learn.microsoft.com/en-us/power-bi/guidance/relationships-active-inactive

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QUESTION 3

You have a Power BI report that uses row-level security (RLS).

You need to transfer RLS membership maintenance to an Azure network security team. The solution must NOT provide the Azure network security team with the ability to manage reports, datasets. or dashboards.

What should you do?

A. Add the Azure network security team as members of the RLS role.

B. Instruct the Azure network security team to create security groups. Configure RLS to use the groups.

C. Configure custom instructions for the Request access feature that instructs users to contact the Azure network security team.

D. Grant the Read and Build permissions for the Power BI datasets to the Azure network security team.

Correct Answer: B

It is common practice that the PBI developer creates RLS groups and instructs the network team to create the corresponding AD roles. Then the developer assigns the AD groups to the RLS groups.

QUESTION 4

You have a Microsoft Excel file on a file server.

You create a Power BI report and import a table from the Excel file.

You publish the report.

You need to ensure that the data refreshes every four hours.

What should you do first?

A. Upload the Excel file to a Power BI workspace.

B. Create a subscription to the report.

C. Deploy an on-premises data gateway.

D. Edit the data source credentials.

Correct Answer: C

QUESTION 5

What should you create to meet the reporting requirements of the sales department?

A. a measure that uses a formula of SUM(Sales[sales_id])

B. a calculated column that use a formula of COUNTA(Sales[sales_id])

C. a measure that uses a formula of COUNTROWS(Sales)

D. a calculated column that uses a formula of SUM(Sales[sales_id])

Correct Answer: C

The sale department requires reports that contain the number of sales transactions.

The COUNTROWS function counts the number of rows in the specified table, or in a table defined by an expression.

Incorrect Answers:

B: COUNTA counts the number of values in a column. It returns the number of cells in a column that contain a non blank value.

Reference: https://docs.microsoft.com/en-us/dax/countrows-function-dax

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QUESTION 6

You need to create the required relationship for the executive\\'s visual. What should you do before you can create the relationship?

A. Change the data type of Sales[region_id] to Whole Number.

B. Change the data type of Sales[region_id] to Decimal Number.

C. Change the data type of Sales[sales_id] to Text.

D. In the Sales table, add a measure for Sum(sales_amount).

Correct Answer: A

Scenario: Executives require a visual that shows sales by region.

Need to change the sales_id column from Varchar to Whole Number (Integer).

QUESTION 7

HOTSPOT

How should you distribute the reports to the board? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Grant access by:

- Sharing individual reports
- Using a workspace membership
- Using an app

Grant access to:

- A dynamic distribution list
- A mail-enabled Azure-Active Directory group
- Individual user emails

Correct Answer:

Answer Area

Grant access by:

- Sharing individual reports
- Using a workspace membership
- Using an app

Grant access to:

- A dynamic distribution list
- A mail-enabled Azure-Active Directory group
- Individual user emails

Box 1: Using a workspace membership

Scenario:

The company wants to provide a single package of reports to the board that contains custom navigation and links to supplementary information.

Note: Workspace is a shared environment for a group of people. You can have multiple Power BI content in a workspace. One workspace can have hundreds of dashboards,reports, and datasets in it.

Box 2: A mail-enabled Azure-Active Directory group

Scenario: Security Requirements

The reports must be made available to the board from powerbi.com. A mail-enabled Azure-Active Directory (security)group will be used to share information with the board.

Reference:

https://docs.microsoft.com/en-us/power-bi/admin/service-admin-rls#using-rls-with-workspaces-in-power-bi

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QUESTION 8

You have a PBiX file that imports several tables from an Azure SQL database.

The data will be migrated to another Azure SQL database.

You need to change the connections in the PBIX file. The solution must minimize administrative effort.

What should you do?

A. From Power Query Editor, modify the source of each query.

B. Create a PBiT file, open the file, and change the data sources when prompted

C. From Power Query Editor, create new queries.

D. Modify the Data source settings.

Correct Answer: D

QUESTION 9

You need to configure access for the sales department users. The solution must me meet the security requirements. What should you do?

A. Add the sales department as a member of the reports workspace

B. Add the Azure Active Directory group of the sales department as an Admin of the reports workspace.

C. Distribute an app to the users in the Azure Active Directory group of the sales department.

D. Share each report to the Azure Active Directory group of the sales department.

Correct Answer: B

QUESTION 10

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 Bl 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 11

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 12

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.

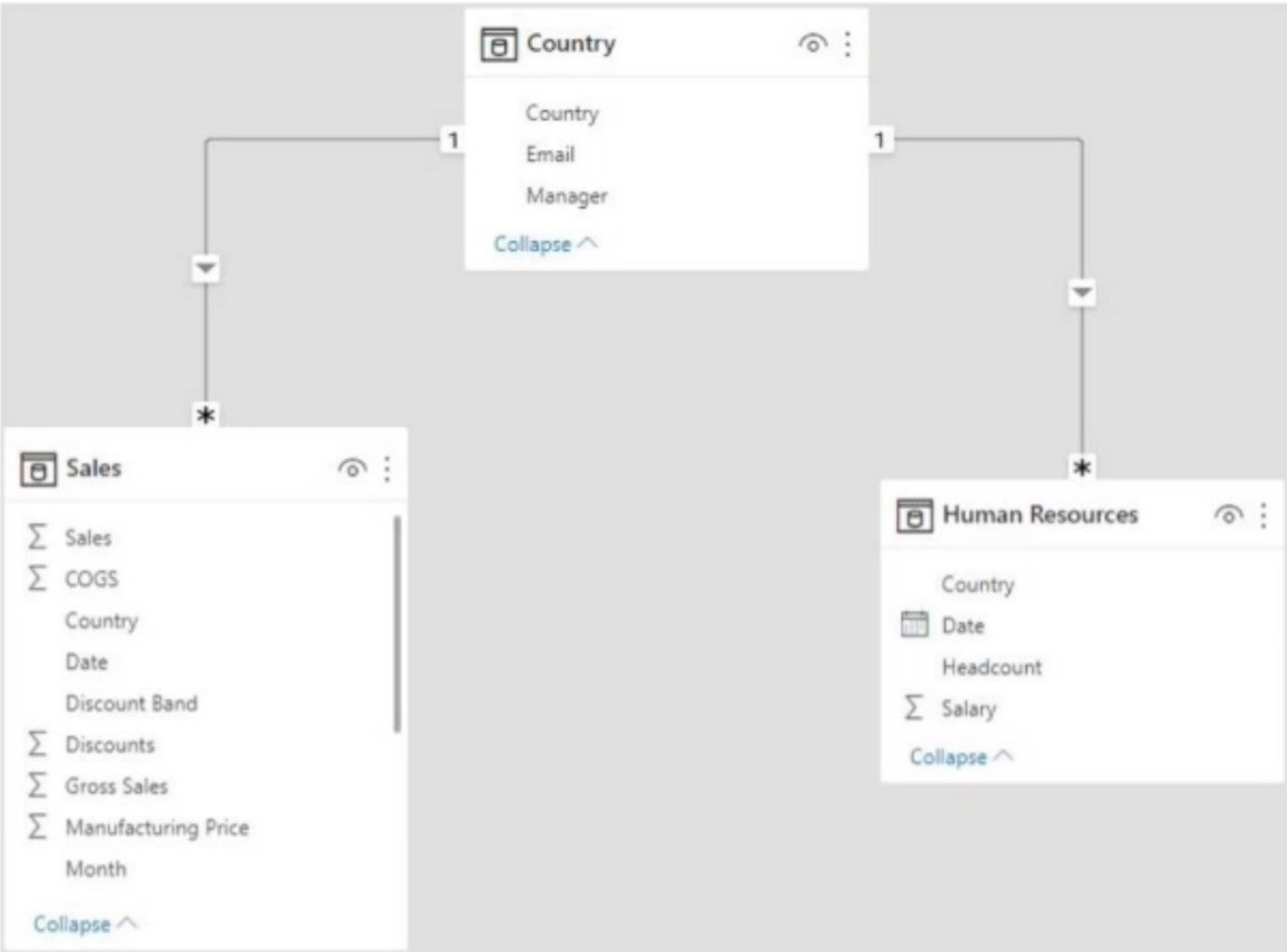
3.

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 13

You have a Power BI workspace named BI Data that contains a dataset named BI Finance. You have the Build permission for the 81 Finance dataset but you do NOT have permissions for the workspace,

You need to connect to BI Finance and create a report.

Which actions should you perform? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. From the Power BI service, create a dataflow to the dataset by using DirectQuery.

B. From Power BI Desktop, connect to a Dataverse data source.

C. From the Power BI service, create a new report and select a published dataset

D. From Power BI Desktop, connect to a shared dataset

Correct Answer: BC

QUESTION 14

HOTSPOT

You are creating reports in Power BI Desktop. The model has the following tables.

Table name	Column name	Data type
Order	Order_date	Datetime
	Order_amount	Float
	Customer_ID	Integer
Customer	Customer_ID	Integer
	Full_name	Varchar(100)
	Customer_Photo	Binary

There is a relationship between the tables.

You plan to publish a report to the Power BI service that displays Order_amount by Order_date by Full_name.

You need to ensure that only the columns required for the report appear in Report View. The solution must minimize the size of the dataset that is published.

How should you configure the columns in Power BI Desktop? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Customer_ID:
- From Query Editor, select the column and click Remove Columns.
- From Query Editor, select the column and click Remove Duplicates.
- From Query Editor, select the column and click Remove Other Columns.
- From the model, select the column and click Hide.

Customer_Photo:
- From Query Editor, select the column and click Remove.
- From Query Editor, select the column and click Remove Duplicates.
- From Query Editor, select the column and click Remove Other Columns.
- From the model, select the column and click Hide.

Correct Answer:

Customer_ID:

- From Query Editor, select the column and click Remove Columns.
- From Query Editor, select the column and click Remove Duplicates.
- From Query Editor, select the column and click Remove Other Columns.
- From the model, select the column and click Hide.

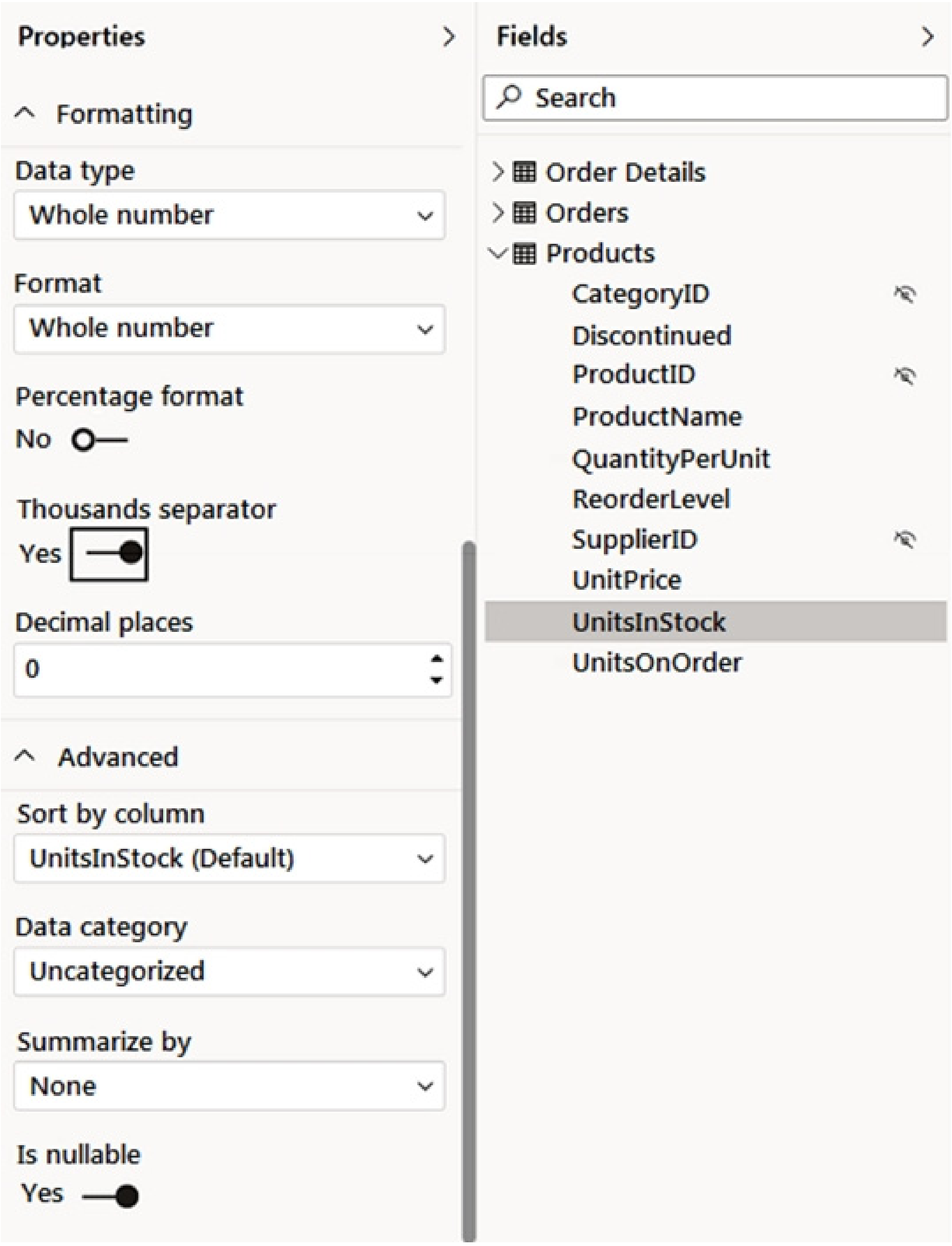
Customer_Photo:

- From Query Editor, select the column and click Remove.
- From Query Editor, select the column and click Remove Duplicates.
- From Query Editor, select the column and click Remove Other Columns.
- From the model, select the column and click Hide.

QUESTION 15

HOTSPOT

You have a column named UnitsInStock as shown in the following exhibit.



UnitsInStock has 75 non-null values, of which 51 are unique.

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

When a table visual is created in a report and UnitsInStock is added to the values, there will be **[answer choice]** in the table.

- 0 rows
- 1 row
- 51 rows
- 75 rows

Changing the Summarize by setting of the UnitsInStock column, and then adding the column to a table visual, will **[answer choice]** the number of rows in the table visual.

- maintain
- reduce
- increase

Correct Answer:

Answer Area

When a table visual is created in a report and UnitsInStock is added to the values, there will be **[answer choice]** in the table.

- 0 rows
- 1 row
- 51 rows
- 75 rows

Changing the Summarize by setting of the UnitsInStock column, and then adding the column to a table visual, will **[answer choice]** the number of rows in the table visual.

- maintain
- reduce
- increase

Box 1: 75

Box 2: reduce

They reduce from the number of values (75), to the number of unique values (51).

Reference:

https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-show-items-no-data

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