

# Microsoft Microsoft DA-100 PDF

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### Question 1

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

**Options:**

- A. Change the data type of Sales[region\_id] to Whole Number.
- B. In the Sales table, add a measure for sum(sales\_amount).
- C. Change the data type of sales[sales\_id] to Text.
- D. Change the data type of sales [region\_id] to Decimal Number.

**Answer: A**

**Explanation:**

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

Need to change the sales\_id column from Varchar to Whole Number (Integer).

### Question 2

You need to address the data concerns before creating the data model. What should you do in Power Query Editor?

**Options:**

- A. Select Column distribution.
- B. Select the sales\_amount column and apply a number filter.
- C. Select Column profile, and then select the sales\_amount column.

D. Transform the sales\_amount column to replace negative values with 0.

**Answer: C**

### Question 3

You need to create a calculated column to display the month based on the reporting requirements. Which DAX expression should you use?

**Options:**

- A. FORMAT('Date'[date], "MMM YYYY")
- B. FORMAT('Date' [date], "M YY")
- C. FORMAT('Date'[date\_id], "MMM") & "" & FORMAT('Date'[year], "#")
- D. FORMAT('Date' [date\_id], "MMM YYYY")

**Answer: A**

### Question 4

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

**Options:**

- 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])

**Answer: C**

**Explanation:**

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.

Reference:

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

### Question 5

You need to create a relationship between the Weekly\_Returns table and the Date table to meet the

Visualization type:

	▼
Card	
Donut chart	
Gauge	
Key influencers	
KPI	

Indicator:

	▼
Date[month]	
Sales[sales_amount]	
Sales[sales_id]	
Targets[sales_target]	
Weekly_Returns[total_returns]	

Trend axis:

	▼
Date[month]	
Sales[sales_amount]	
Sales[sales_id]	
Targets[sales_target]	
Weekly_Returns[total_returns]	

Answer: A

Target goals:

Explanation:

Scenario: The sales managers require a visual to analyze sales performance versus sales targets.

Box 1: KPI

A Key Performance Indicator (KPI) is a visual cue that communicates the amount of progress made toward a measurable goal.

Box 2: Sales[sales\_amount]

Box 3: Date[month]

	▼
Date[month]	
Sales[sales_amount]	
Sales[sales_id]	
Targets[sales_target]	
Weekly_Returns[total_returns]	

Time > FiscalMonth. This value will represent the trend.

Box 4: Targets[sales\_target]

Reference:

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

## Question 7

You need to provide a solution to provide the sales managers with the required access. What should you include in the solution?

### Options:

- A. Create a security role that has a table filter on the Sales\_Manager table where username = UserName()
- B. Create a security role that has a table filter on the Region\_Manager table where sales\_manager\_id = UserPrincipalName().
- C. Create a security role that has a table filter on the Sales\_Manager table where name = UserName().
- D. Create a security role that has a table filter on the Sales\_Manager table where username = sales\_manager\_id.

**Answer: A**

### Explanation:

<https://powerbi.microsoft.com/en-us/blog/using-username-in-dax-with-row-level-security/>

## Question 8

You need to create relationships to meet the reporting requirements of the customer service department.

What should you create?

### Options:

- A. an additional date table named ShipDate, a one-to-many relationship from Sales[sales\_date\_id] to Date[date\_id], and a one-to-many relationship from Sales[sales\_ship\_date\_id] to ShipDate[date\_id]
- B. an additional date table named ShipDate, a many-to-many relationship from Sales[sales\_date\_id] to Date[date\_id], and a many-to-many relationship from Sales[sales\_ship\_date\_id] to ShipDate[date\_id]
- C. a one-to-many relationship from Date[date\_id] to Sales[sales\_date\_id] and another one-to-

many

relationship from Date[date\_id] to Weekly\_Returns[week\_id]

D. a one-to-many relationship from Sales[sales\_date\_id] to Date[date\_id] and a one-to-many relationship from Sales[sales\_ship\_date\_id] to Date[date\_id]

E. a one-to-many relationship from Date[date\_id] to Sales[sales\_date\_id] and another one-to-many relationship from Date[date\_id] to Sales[sales\_ship\_date\_id]

**Answer: A**

**Explanation:**

Scenario: The customer service department requires a visual that can be filtered by both sales month and ship month independently.

Reference:

<https://docs.microsoft.com/en-us/sql/relational-databases/t-sql/functions/isfiltered-transact-sql?view=sql-server-150>

Values	Answer Area
	<pre>Total Projected Revenue = IF ( NOT ( ISFILTERED ( 'Date' [Date] ) ), SUM (Projection[Revenue Projection] ) )</pre>

**Options:**

A.

**Answer: A**

**Explanation:**

Scenario: Revenue projections are set at the monthly level and summed to show projections for the quarter.

Box 1: IF

Box 2: ISFILTERED

ISFILTERED returns TRUE when columnName is being filtered directly. If there is no filter on the column or if the filtering happens because a different column in the same table or in a related table is being filtered then the function returns FALSE.

Box 3: SUM

Reference:

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

## Question 10

HOTSPOT

You need to calculate the last day of the month in the balance sheet data to ensure that you can relate the balance sheet data to the Date table. Which type of calculation and which formula should you use? To answer, select the appropriate options in the answer area.

a. NOTE: Each correct selection is worth one point.

Type of calculation:

▼
A DAX calculated column
A DAX calculated measure
An M custom column

Answer: A

Explanation:

Box 1: Formula

▼
Date.EndOfMonth(#date([Year], [Month], 1))
Date.EndOfQuarter(#date([Year], [Month], 1))
ENDOFQUARTER(DATE('BalanceSheet'[Year], BalanceSheet[Month], 1), 0)

Box 2: Date.EndOfQuarter(#date([Year], [Month], 1))

ENDOFQUARTER returns the last date of the quarter in the current context for the specified column of dates.

The following sample formula creates a measure that returns the end of the quarter, for the current context.

= ENDOFQUARTER(DateTime[DateKey])

Reference:

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

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