Microsoft

DA-100 Exam

Microsoft Analyzing Data with Microsoft Power BI Exam

Questions & Answers
(Demo Version – Limited Content)

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Version: 5.0

Question: 1

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

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: A

Question: 2

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

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: D

Explanation:
Scenario: In the Date table, the date_id column has a format of yyyymmdd. Users must be able to see the month in reports as shown in the following example: Feb 2020.

Question: 3

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. In the Sales table, add a measure for sum(sales_amount).
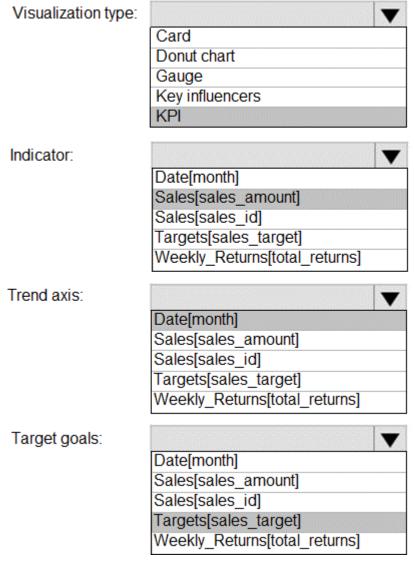C. Change the data type of sales[sales_id] to Text.

D. Change the data type of sales [region_id] to Decimal Number.

	Answer: C

Question: 4

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

A. a calculated column that use a formula of couMTA(Sales[sales_id]>
B. a calculated measure that uses a formula of couNTROws(Sales)
C. a calculated column that uses a formula of suM(Sales[sales_id])
D. a measure that uses a formula of sw-i(Sales[sales_id])

	Answer: B

Question: 5

You need to create a relationship between the Weekly_Returns table and the Date table to meet the reporting requirements of the regional managers. What should you do?

A. In the Weekly.Returns table, create a new calculated column named date-id in a format of yyyymmdd and use the calculated column to create a relationship to the Date table.
B. Add the Weekly_Returns data to the Sales table by using related DAX functions.
C. Create a new table based on the Date table where date-id is unique, and then create a many-to-many relationship to Weekly_Return.

	Answer: A

Explanation:
Scenario: Region managers require a visual to analyze weekly sales and returns.
To relate the two tables we need a common column.

Question: 6

HOTSPOT
You need to create a visualization to meet the reporting requirements of the sales managers.
How should you create the visualization? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

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]
```
These are the selections for Indicator

Trend axis:
```
Date[month]
Sales[sales_amount]
Sales[sales_id]
Targets[sales_target]
Weekly_Returns[total_returns]
```

Target goals:
```
Date[month]
Sales[sales_amount]
Sales[sales_id]
Targets[sales_target]
Weekly_Returns[total_returns]
```

Answer:

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] |

Target goals:

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

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]
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?

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: B

Explanation:
Scenario: The region_id column can be managed by only one sales manager.
You can use Username() or userprincipalname() in DAX with Row-Level Security.
Within Power BI Desktop, username() will return a user in the format of DOMAIN\User and userprincipalname() will return a user in the format of user@contoso.com.
Reference:
https://docs.microsoft.com/en-us/power-bi/admin/service-admin-rls

Question: 8

You need to create relationships to meet the reporting requirements of the customer service department.
What should you create?

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: E

Explanation:
Scenario: The customer service department requires a visual that can be filtered by both sales month and ship month independently.
Reference:
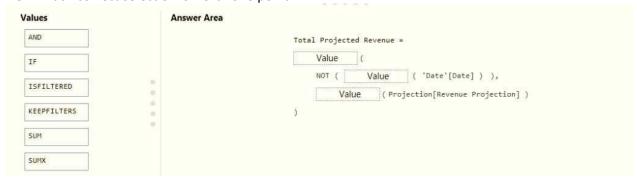https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-relationships-understand

Question: 9

DRAG DROP
You need to create a DAX measure in the data model that only allows users to see projections at the appropriate levels of granularity.
How should you complete the measure? To answer, drag the appropriate values to the correct targets. 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.

Values	Answer Area
AND	Total Projected Revenue =
IF	Value (
ISFILTERED	NOT (Value ('Date'[Date])),
KEEPFILTERS	Value (Projection[Revenue Projection])
SUM	)
SUMX	

Answer:

```
Total Projected Revenue =
  IF          (
   NOT ( ISFILTERED ( 'Date' [Date] ) ),
     SUM          (Projection[Revenue Projection] )
  )
```

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

What is the minimum number of datasets and storage modes required to support the reports?

A. two imported datasets
B. a single DirectQuery dataset
C. two DirectQuery datasets
D. a single imported dataset

Answer: A

Explanation:
Scenario: Data and Sources
Data for the reports comes from three sources. Detailed revenue, cost, and expense data comes from an Azure SQL database. Summary balance sheet data comes from Microsoft Dynamics 365 Business Central. The balance sheet data is not related to the profit and loss results, other than they both relate dates.
Monthly revenue and expense projections for the next quarter come from a Microsoft SharePoint Online list. Quarterly projections relate to the profit and loss results by using the following shared dimensions: date, business unit, department, and product category.
Reference:
https://docs.microsoft.com/en-us/power-bi/connect-data/service-datasets-understand

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