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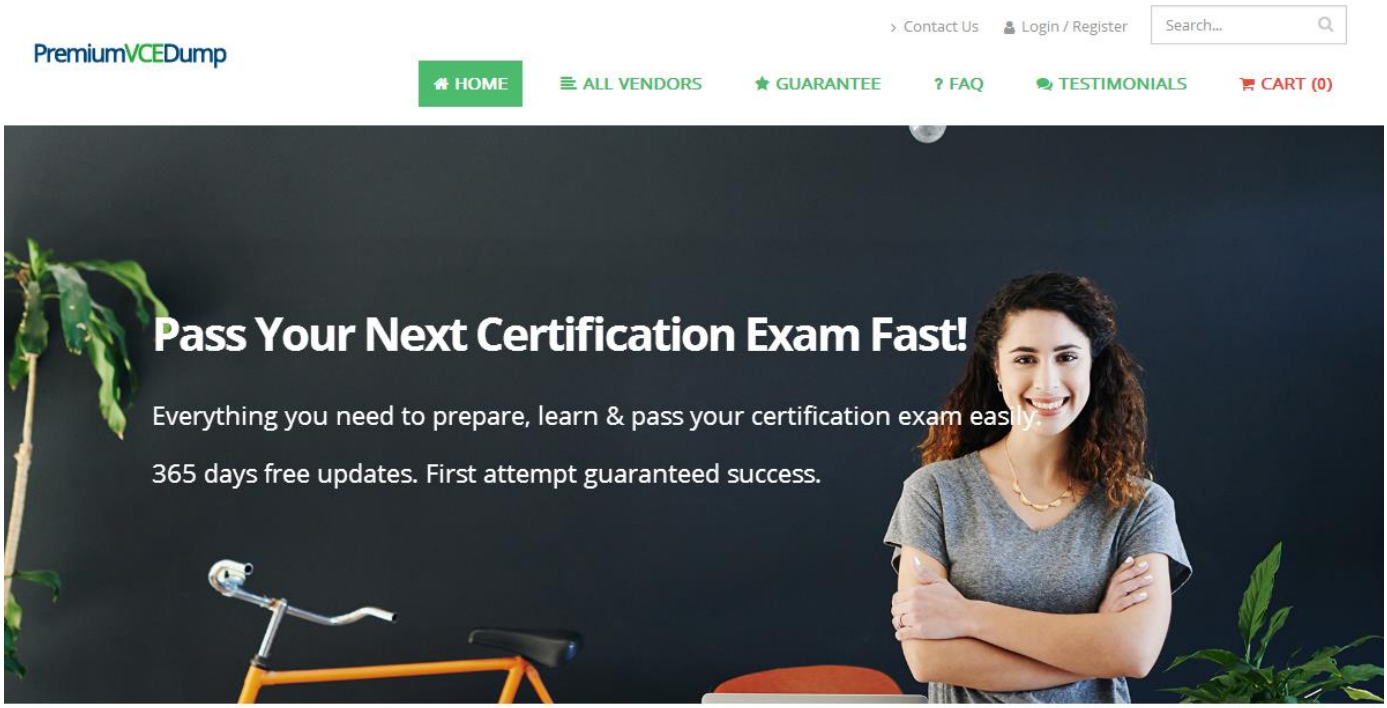

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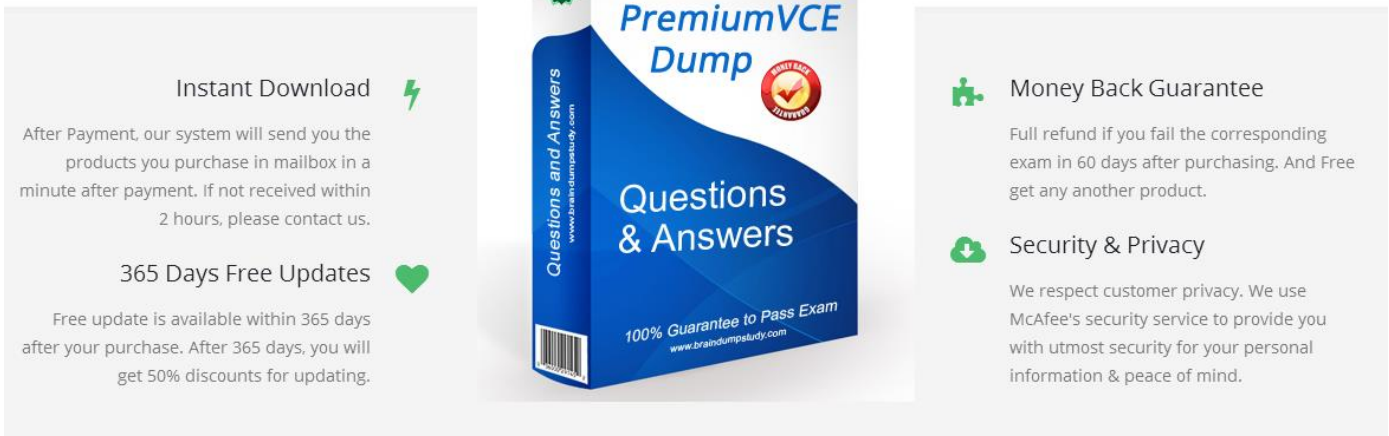

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Exam : **DA-100J**

Title : Analyzing Data with Microsoft Power BI (DA-100日本語版)

Vendor : Microsoft

Version : DEMO

QUESTION NO: 1
レポート要件に基づいて月を表示するには、計算列を作成する必要があります。どのDAX式を使用する必要がありますか？
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 NO: 2
データモデルを作成する前に、データの懸念に対処する必要があります。 Power Query Editorで何をする必要がありますか？
A.列分布を選択します。
B.sales_amount列を選択し、数値フィルターを適用します。
C.[列プロファイル]を選択してから、sales_amount列を選択します。
D.sales_amount列を変換して、負の値を0に置き換えます。
Answer: C
Existing Environment
Sales Data
Litware has online sales data that has the SQL schema shown in the following table.

Table name	Column name	Data type
Sales_Region	region_id	Integer
	name	Varchar
Region_Manager	region_id	Integer
	manager_id	Integer
Sales_Manager	sales_manager_id	Integer
	name	Varchar
	username	Varchar
Sales	sales_id	Integer
	sales_date_id	Integer
	sales_amount	Floating
	customer_id	Integer
	sales_ship_date_id	Integer
	region_id	Varchar
Customer_Date	customer_id	Integer
	first_name	Varchar
	last_name	Varchar
Date	date_id	Integer
	date	Date
	month	Integer
	week	Integer
	year	Integer
Weekly_Returns	week_id	Integer
	total_returns	Floating
	sales_region_id	Varchar
Targets	target_id	Integer
	sales_target	Decimal
	date_id	Integer
	region_id	Integer

In the Date table, the dateid column has a format of yyyymmdd and the month column has a format of yyyymm. The week column in the Date table and the weekid column in the Weekly_Returns table have a format of yyyyww. The regionid column can be managed by only one sales manager.

Data Concerns

You are concerned with the quality and completeness of the sales dat

a. You plan to verify the sales data for negative sales amounts.

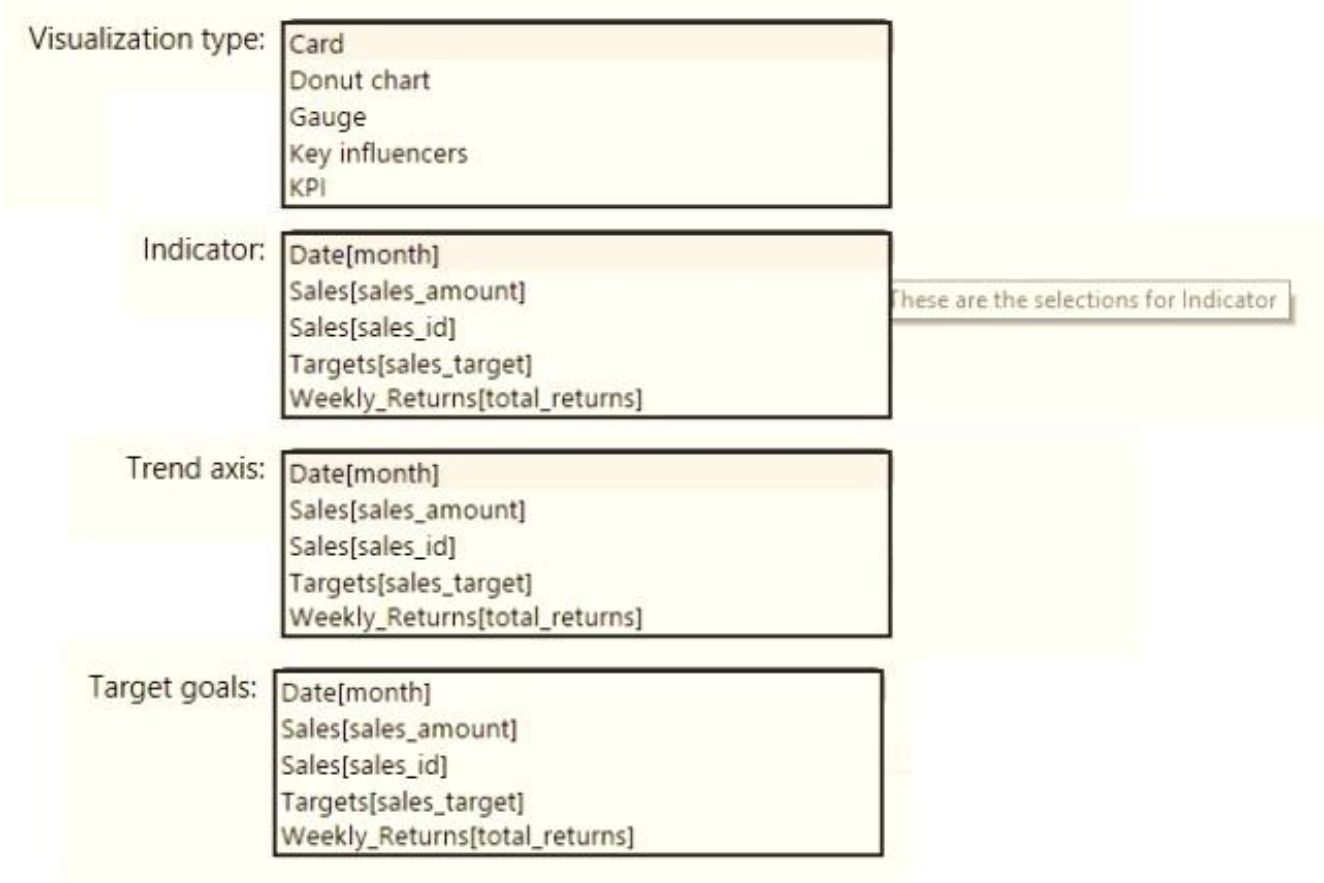
Reporting Requirements

Litware identifies the following technical requirements:

* Executives require a visual that shows sales by region.
* Regional managers require a visual to analyze weekly sales and returns.
* Sales managers must be able to see the sales data of their respective region only.
* The sales managers require a visual to analyze sales performance versus sales targets.

* The sale department requires reports that contain the number of sales transactions.
* Users must be able to see the month in reports as shown in the following example: Feb 2020.
* The customer service department requires a visual that can be filtered by both sales month and ship month independently.

QUESTION NO: 3
セールスマネージャーのレポート要件を満たすために、ビジュアライゼーションを作成する必要があります。
ビジュアライゼーションをどのように作成する必要がありますか？回答するには、回答領域で適切なオプションを選択します。
注：正しい選択はそれぞれ1ポイントの価値があります。



Answer:

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

QUESTION NO: 4
エグゼクティブのビジュアルに必要な関係を作成する必要があります。関係を築く前に何をすべきですか？
A.Sales [region_id]のデータ型を整数に変更します。
B.Salesテーブルに、sum（sales_amount）のメジャーを追加します。
C.sales [sales_id]のデータ型をTextに変更します。
D.sales [region_id]のデータ型を10進数に変更します。
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 NO: 5
地域マネージャーのレポート要件を満たすには、Weekly_ReturnsテーブルとDateテーブルの間に関係を作成する必要があります。あなたは何をするべきか？
A.Weekly.Returnsテーブルで、date-idという名前の新しい計算列をyyyymmddの形式で作成し、計算列を使用してDateテーブルとの関係を作成します。
B.関連するDAX関数を使用して、Weekly_ReturnsデータをSalesテーブルに追加します。
C.date-

idが一意であるDateテーブルに基づいて新しいテーブルを作成してから、Weekly_Returnとの多対多の関係を作成します。

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 NO: 6

営業マネージャーに必要なアクセスを提供するためのソリューションを提供する必要があります。

ソリューションに何を含める必要がありますか？

A.ユーザー名=

UserName（）であるSales_Managerテーブルにテーブルフィルターを持つセキュリティロールを作成します

B.sales_manager_id =

UserPrincipalName（）であるRegion_Managerテーブルにテーブルフィルターを持つセキュリティロールを作成します。

C.name =

UserName（）であるSales_Managerテーブルにテーブルフィルターを持つセキュリティロールを作成します。

D.username =

sales_manager_idであるSales_Managerテーブルにテーブルフィルターを持つセキュリティロールを作成します。

Answer: A

Explanation:

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

QUESTION NO: 7

営業部門のレポート要件を満たすために何を作成する必要がありますか？

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 NO: 8

カスタマーサービス部門のレポート要件を満たすために、関係を作成する必要があります。

何を作成する必要がありますか？

A.ShipDateという名前の追加の日付テーブル、Sales [sales_date_id]からDate [date_id]への1対多の関係、およびSales [sales_ship_date_id]からShipDate [date_id]への1対多の関係。
B.ShipDateという名前の追加の日付テーブル、Sales [sales_date_id]からDate [date_id]までの多対多の関係、およびSales [sales_ship_date_id]からShipDate [date_id]までの多対多の関係
C.Date [date_id]からSales [sales_date_id]までの1対多の関係、およびDate [date_id]からWeekly_Returns [week_id]までの別の1対多の関係
D.Sales [sales_date_id]からDate [date_id]までの1対多の関係、およびSales [sales_ship_date_id]からDate [date_id]までの1対多の関係
E.Date [date_id]からSales [sales_date_id]までの1対多の関係、およびDate [date_id]からSales [sales_ship_date_id]までの別の1対多の関係
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/power-bi/transform-model/desktop-relationships-understand
Overview This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.
To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.
At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.
To start the case study
To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.
==========
Topic 1, Contoso Ltd,
Existing Environment
Contoso, Ltd. is a manufacturing company that produces outdoor equipment Contoso has quarterly board meetings for which financial analysts manually prepare Microsoft Excel reports, including profit and loss statements for each of the company's four business units, a company balance sheet, and net income projections for the next quarter.
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 to 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.
Net Income Projection Data
Net income projection data is stored in a SharePoint Online list named Projections in the format shown in the following table.

MonthStartDate	Projection type	ProductCategory	Department	Projection
1-Apr-20	Revenue	Bikes	N/A	200,000
1-Apr-20	Revenue	Components	N/A	250,000
1-Apr-20	Revenue	Clothing	N/A	300,000
1-Apr-20	Revenue	Accessories	N/A	150,000
1-May-20	Revenue	Bikes	N/A	200,000
1-May-20	Revenue	Components	N/A	250,000
1-Apr-20	Expense	Bikes	Bike Manufacture	50,000
1-Apr-20	Expense	Bikes	Bike Sales	3,333

Revenue projections are set at the monthly level and summed to show projections for the quarter.
Balance Sheet Data
The balance sheet data is imported with final balances for each account per month in the format shown in the following table.

AccountCategory	Account	Month	Year	BalanceAmount
Current assets	Cash and cash equivalents	3	2020	20,289
Current assets	Inventories	3	2020	4,855
Long-term liabilities	Long-term debt	3	2020	50,207
Current assets	Cash and cash equivalents	2	2020	28,209
Current assets	Inventories	2	2020	5,845
Long-term liabilities	Long-term debt	2	2020	49,887
Current assets	Cash and cash equivalents	1	2020	25,567
Current assets	Inventories	1	2020	65,998
Long-term liabilities	Long-term debt	1	2020	46,124

There is always a row for each account for each month in the balance sheet data.
Dynamics 365 Business Central Data
Business Central contains a product catalog that shows how products roll up to product

categories, which roll up to business units. Revenue data is provided at the date and product level. Expense data is provided at the date and department level.

Business Issues

Historically, it has taken two analysts a week to prepare the reports for the quarterly board meetings. Also, there is usually at least one issue each quarter where a value in a report is wrong because of a bad cell reference in an Excel formula. On occasion, there are conflicting results in the reports because the products and departments that roll up to each business unit are not defined consistently.

Planned Changes

Contoso plans to automate and standardize the quarterly reporting process by using Microsoft Power BI. The company wants to how long it takes to populate reports to less than two days. The company wants to create common logic for business units, products, and departments to be used across all reports, including, but not limited, to the quarterly reporting for the board.

Technical Requirements

Contoso wants the reports and datasets refreshed with minimal manual effort The company wants to provide a single package of reports to the board that contains custom navigation and links to supplementary information.

Maintenance, including manually updating data and access, must be minimized as much as possible.

Security Requirements

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

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.

Report Requirements

You plan to relate the balance sheet to a standard date table in Power BI in a many-to-one relationship based on the last day of the month. At least one of the balance sheet reports in the quarterly reporting package must show the ending balances for the quarter, as well as for the previous quarter.

Projections must contain a column named RevenueProjection that contains the revenue projection amounts. A relationship must be created from Projections to a table named Date that contains the columns shown in the following table.

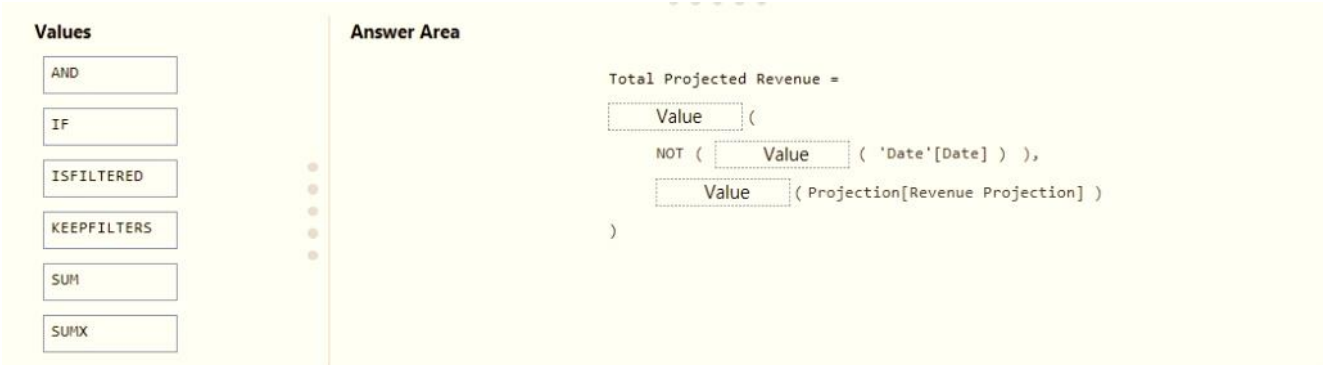
Name	Data type	Example
Date	Date	4-Apr-2020
Month	Integer	20,2004
Month Name	Text	February
Quarter	Integer	20,202
Year	Integer	2,020

The relationships between products and departments to business units must be consistent across all reports.

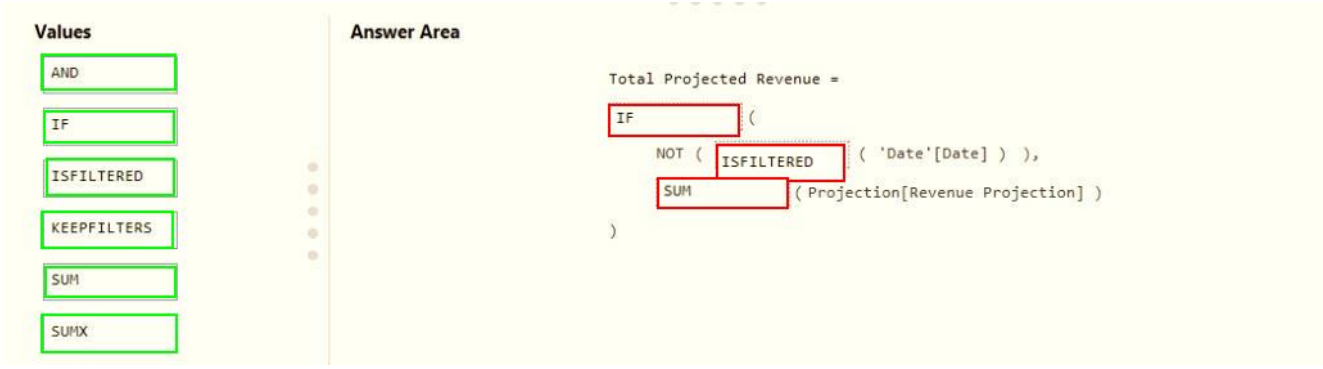
The board must be able to get the following information from the quarterly reports:
* Revenue trends over time
* Ending balances for each account
* A comparison of expenses versus projections by quarter
* Changes in long-term liabilities from the previous quarter
* A comparison of quarterly revenue versus the same quarter during the prior year

QUESTION NO: 9
レポートをサポートするために必要なデータセットとストレージモードの最小数はいくつですか？
A.2つのインポートされたデータセット
B.単一のDirectQueryデータセット
C.2つのDirectQueryデータセット
D.インポートされた単一のデータセット
Answer: D
Explanation:
"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" => one dataset and two separate workspaces Reason: All data can be imported into one dataset also if these are two logical models. Shared dimensions can be reconsumed in both models. Reports and additional materials can be shared to the board with an app. The "profit and loss" data model needs RLS for the analysts and the analysts must have just read access to the original workspace. In a separate workspace with contributer (or more rights) they can create new reports (with live connection to the dataset). It is also stated that the new reports mustn't be shared so therefore no need to include them into the app. Import vs. DirectQuery: Due to RLS requirements an imported dataset is needed. It is not possible with file sources and Sharepoint lists.

QUESTION NO: 10
ユーザーが適切なレベルの粒度でのみ予測を表示できるようにするDAXメジャーをデータモデルに作成する必要があります。
どのように対策を完了する必要がありますか？答えるには、適切な値を正しいターゲットにドラッグします。各値は、1回使用することも、複数回使用することも、まったく使用しないこともできます。コンテンツを表示するには、分割バーをペイン間でドラッグするか、スクロールする必要がある場合があります。
注：正しい選択はそれぞれ1ポイントの価値があります。



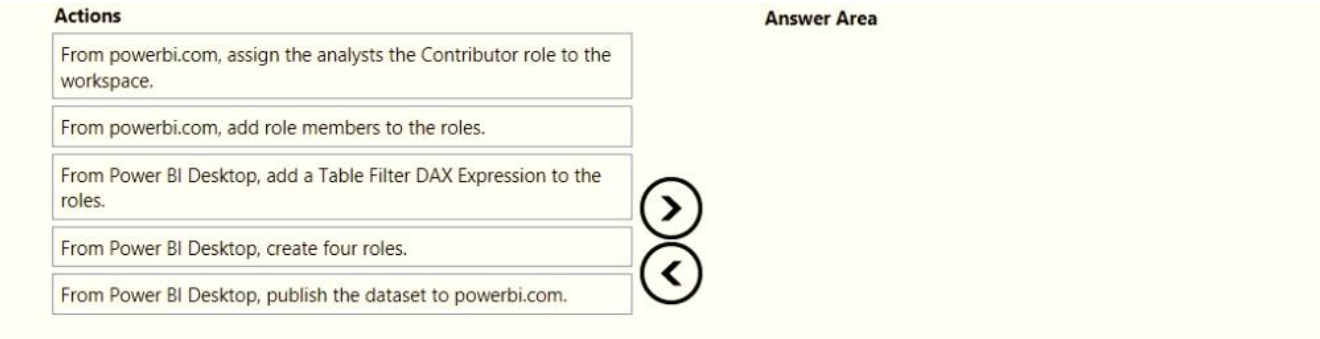
Answer:



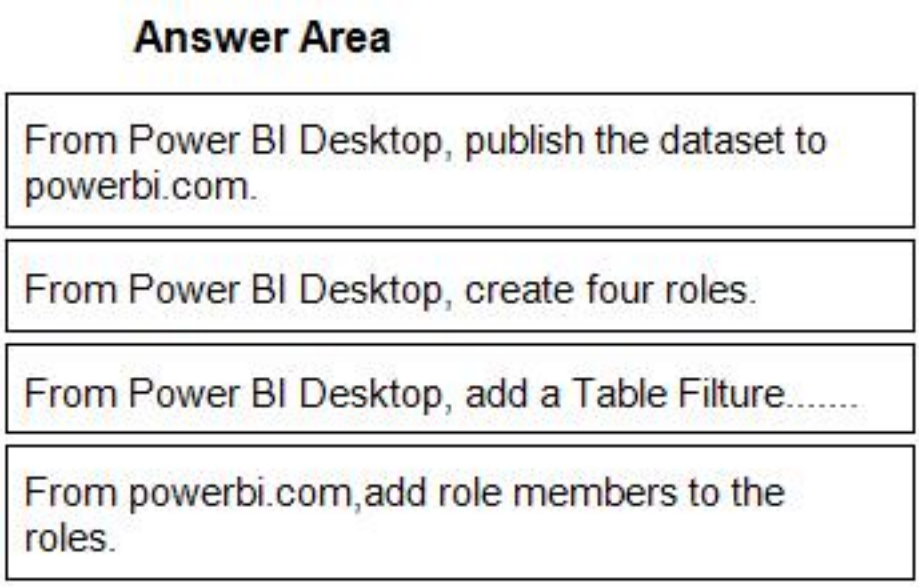
Reference:
https://docs.microsoft.com/en-us/dax/isfiltered-function-dax

QUESTION NO: 11
ビジネスユニット、部門、および製品カテゴリのデータを一貫して定義し、レポート全体でデータを使用できるようにするための戦略を推奨する必要があります。
あなたは何をお勧めしますか？
A.標準化されたエンティティごとに共有データセットを作成します。
B.標準化されたデータのデータフローを作成し、インポートされたすべてのデータセットでデータフローを使用できるようにします。
C.すべてのレポートについて、標準化されたデータを含む単一の共有データセットを作成して使用します。
D.3つのエンティティについて、Power
BIモデルからExcelへのデータのエクスポートを作成し、他のユーザーがソースとして使用できるようにデータをMicrosoftOneDriveに保存します。
Answer: B

QUESTION NO: 12
損益データセットが作成されたら、ビジネスユニットのアナリストが適切な損益データを確認できるように、順番に実行する必要がある4つのアクションはどれですか。回答するには、適切なアクションをアクションのリストから回答領域に移動し、正しい順序で配置します。



Answer:



1 - From Power BI Desktop, publish the dataset to powerbi.com.
2 - From Power BI Desktop, create four roles.
3 - From Power BI Desktop, add a Table Filture.....
4 - From powerbi.com,add role members to the roles.