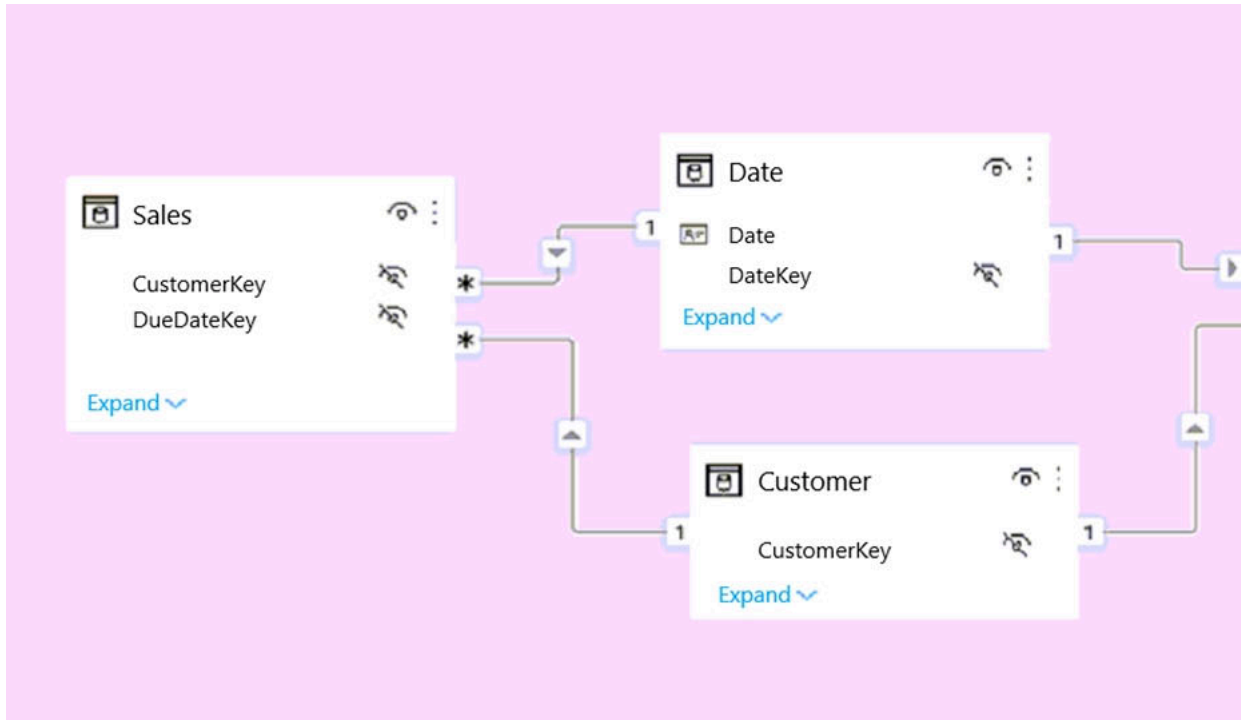# Microsoft Power BI Data Analyst

1. HOTSPOT (Drag and Drop is not supported)
You plan to create the Power BI model shown in the exhibit. (Click the Exhibit tab.)

The data has the following refresh requirements:
-Customer must be refreshed daily.
-Date must be refreshed once every three years.
-Sales must be refreshed in near real time.
-SalesAggregate must be refreshed once per week.
You need to select the storage modes for the tables. The solution must meet the following requirements:
-Minimize the load times of visuals.
-Ensure that the data is loaded to the model based on the refresh requirements.
Which storage mode should you select for each table? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Customer:
▼
DirectQuery
Dual
Import

Date:
▼
DirectQuery
Dual
Import

Sales:
▼
DirectQuery
Dual
Import

SalesAggregate:
▼
DirectQuery
Dual
Import

A. See Explanation section for answer.

Answer(s): A

---

2. You have a project management app that is fully hosted in Microsoft Teams. The app was developed by using Microsoft Power Apps.
You need to create a Power BI report that connects to the project management app.
Which connector should you select?

A. Microsoft Teams Personal Analytics

B. SQL Server database

C. Dataverse

D. Dataflows

Answer(s): C

---

3. For the sales department at your company, you publish a Power BI report that imports data from a Microsoft Excel file located in a Microsoft SharePoint folder.
The data model contains several measures.
You need to create a Power BI report from the existing data. The solution must minimize development effort.
Which type of data source should you use?

A. Power BI dataset

B. a SharePoint folder

C. Power BI dataflows

D. an Excel workbook

Answer(s): B

4. You import two Microsoft Excel tables named Customer and Address into Power Query. Customer contains the following columns:
-Customer ID
-Customer Name
-Phone
-Email Address
-Address ID
Address contains the following columns:
-Address ID
-Address Line 1
-Address Line 2
-City
-State/Region
-Country
-Postal Code
Each Customer ID represents a unique customer in the Customer table. Each Address ID represents a unique address in the Address table.
You need to create a query that has one row per customer. Each row must contain City, State/Region, and Country for each customer.
What should you do?

A. Merge the Customer and Address tables.

B. Group the Customer and Address tables by the Address ID column.

C. Transpose the Customer and Address tables.

D. Append the Customer and Address tables.

Answer(s): A

---

5. HOTSPOT (Drag and Drop is not supported)
You have two Azure SQL databases that contain the same tables and columns.
For each database, you create a query that retrieves data from a table named Customer.
You need to combine the Customer tables into a single table. The solution must minimize the size of the data model and support scheduled refresh in powerbi.com.
What should you do? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Hot Area:

Answer Area

Option to use to combine the Customer tables:

| Append Queries |
| Append Queries as New |
| Merge Queries |
| Merge Queries as New |

Action to perform on the original two SQL database queries:

| Delete the queries |
| Disable including the query in report refresh |
| Disable loading the query to the data model |
| Duplicate the queries |

A. See Explanation section for answer.

Answer(s): A

---

6. DRAG DROP (Drag and Drop is not supported)
In Power Query Editor, you have three queries named ProductCategory, ProductSubCategory, and Product.

Every Product has a ProductSubCategory.

Not every ProductsubCategory has a parent ProductCategory.

You need to merge the three queries into a single query. The solution must ensure the best performance in Power Query.

How should you merge the tables? To answer, drag the appropriate merge types to the correct queries. Each merge type 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:

Join kinds	Answer Area		
		Left Table	**Right Table**
Full outer			
Inner		Product	ProductSubCategor
Left anti		ProductSubCategory	ProductCategory
Left outer			
Right anti			
Right outer			

A. See Explanation section for answer.

Answer(s): A

---

7. You are building a Power BI report that uses data from an Azure SQL database named erp1.

You import the following tables.

Name	Description
Products	Contains the product catalog
Orders	Contains high-level information about orders
Order Line Items	Contains the product ID, quantity, and price details of an order

You need to perform the following analyses:

-Orders sold over time that include a measure of the total order value Orders by attributes of products sold

The solution must minimize update times when interacting with visuals in the report.

What should you do first?

A. From Power Query, merge the Order Line Items query and the Products query.

B. Create a calculated column that adds a list of product categories to the Orders table by using a DAX function.

C. Calculate the count of orders per product by using a DAX function.

D. From Power Query, merge the Orders query and the Order Line Items query.

Answer(s): D

---

8. You have a Microsoft SharePoint Online site that contains several document libraries.

One of the document libraries contains manufacturing reports saved as Microsoft Excel files. All the

manufacturing reports have the same data structure.

You need to use Power BI Desktop to load only the manufacturing reports to a table for analysis.

What should you do?

A. Get data from a SharePoint folder and enter the site URL Select Transform, then filter by the folder path to the manufacturing reports library.

B. Get data from a SharePoint list and enter the site URL. Select Combine & Transform, then filter by the folder path to the manufacturing reports library.

C. Get data from a SharePoint folder, enter the site URL, and then select Combine & Load.

D. Get data from a SharePoint list, enter the site URL, and then select Combine & Load.

Answer(s): A

---

9. DRAG DROP (Drag and Drop is not supported)

You have a Microsoft Excel workbook that contains two sheets named Sheet1 and Sheet2.

Sheet1 contains the following table named Table1.

Products
abc
def
ghi
jkl
mno

Sheet2 contains the following table named Table2.

Products
abc
xyz
tuv
mno
pqr
stu

You need to use Power Query Editor to combine the products from Table1 and Table2 into the following table that has one column containing no duplicate values.

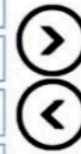| Products |
|----------|
| abc |
| xyz |
| tuv |
| mno |
| pqr |
| stu |
| def |
| ghi |
| jkl |

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions   **Answer Area**

Actions
From Power Query Editor, remove errors from the table.
From Power Query Editor, select **Table1**, and then select **Remove duplicates**.
From Power Query Editor, merge Table1 and Table2.
From Power BI Desktop, import the data from Excel, and select **Table1** and **Table2**.
From Power Query Editor, append Table2 to Table1.

> <

A. See Explanation section for answer.

Answer(s): A

---

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. Apply a transformation to extract the last 11 characters of the Logged column and set the data type of the new column to Date.

B. Change the data type of the Logged column to Date.

C. Split the Logged column by using at as the delimiter.

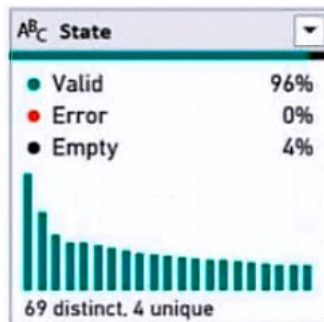| D. Apply a transformation to extract the first 11 characters of the Logged column. |
|---|

Answer(s): D

---

11. You have a Microsoft Excel file in a Microsoft OneDrive folder.
The file must be imported to a Power BI dataset.
You need to ensure that the dataset can be refreshed in powerbi.com.
Which two connectors can you use to connect to the file? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

☐ A. Excel Workbook

☐ B. Text/CSV

☐ C. Folder

☐ D. SharePoint folder

☐ E. Web

Answer(s): A C

---

12. HOTSPOT (Drag and Drop is not supported)
You are profiling data by using Power Query Editor.
You have a table named Reports that contains a column named State. The distribution and quality data metrics for the data in State is shown in the following exhibit.

ABC State

● Valid	96%
● Error	0%
● Empty	4%

69 distinct, 4 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

There are **[answer choice]** different values in State including nulls.

| 4 |
| 65 |
| 69 |
| 73 |

There are **[answer choice]** non-null values that occur only once in State.

| 4 |
| 65 |
| 69 |
| 73 |

A. See Explanation section for answer.

Answer(s): A

---

13. HOTSPOT (Drag and Drop is not supported)

You have two CSV files named Products and Categories.

The Products file contains the following columns:
-ProductID
-ProductName
-SupplierID
-CategoryID

The Categories file contains the following columns:
-CategoryID
-CategoryName
-CategoryDescription

From Power BI Desktop, you import the files into Power Query Editor.

You need to create a Power BI dataset that will contain a single table named Product. The Product will table includes the following columns:
-ProductID
-ProductName
-SupplierID
-CategoryID
-CategoryName
-CategoryDescription

How should you combine the queries, and what should you do on the Categories query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Combine the queries by performing a:

Append
Merge
Transpose

On the Categories query:

Delete the query.
Disable the query load.
Exclude the query from report refresh.

A. See Explanation section for answer.

Answer(s): A

---

14. You have an Azure SQL database that contains sales transactions. The database is updated frequently. You need to generate reports from the data to detect fraudulent transactions. The data must be visible within five minutes of an update.
How should you configure the data connection?

A. Add a SQL statement.

B. Set the Command timeout in minutes setting.

C. Set Data Connectivity mode to Import.

D. Set Data Connectivity mode to DirectQuery.

Answer(s): D

---

15. DRAG DROP (Drag and Drop is not supported)
You have a folder that contains 100 CSV files.
You need to make the file metadata available as a single dataset by using Power BI. The solution must NOT store the data of the CSV files.
Which three actions should you perform in sequence. To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.
Select and Place:

Actions

From Power BI Desktop, select **Get Data**, and then select Folder.
From Power Query Editor, expand the Attributes column.
From Power Query Editor, remove the Content column.
From Power Query Editor, remove the Attributes column.
From Power BI Desktop, select Get Data, and then select Text/CSV.
From Power Query Editor, combine the Content column.

Answer Area

> <

A. See Explanation section for answer.

Answer(s): A

---

16. A business intelligence (BI) developer creates a dataflow in Power BI that uses DirectQuery to access tables from an on-premises Microsoft SQL server. The Enhanced Dataflows Compute Engine is turned on for the dataflow.

You need to use the dataflow in a report. The solution must meet the following requirements:

-Minimize online processing operations.

-Minimize calculation times and render times for visuals.

-Include data from the current year, up to and including the previous day.

What should you do?

A. Create a dataflows connection that has DirectQuery mode selected.

B. Create a dataflows connection that has DirectQuery mode selected and configure a gateway connection for the dataset.

C. Create a dataflows connection that has Import mode selected and schedule a daily refresh.

D. Create a dataflows connection that has Import mode selected and create a Microsoft Power Automate solution to refresh the data hourly.

Answer(s): C

---

17. DRAG DROP (Drag and Drop is not supported)

You publish a dataset that contains data from an on-premises Microsoft SQL Server database.

The dataset must be refreshed daily.

You need to ensure that the Power BI service can connect to the database and refresh the dataset.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

A. See Explanation section for answer.

Answer(s): A

---

18. You attempt to connect Power BI Desktop to a Cassandra database.

From the Get Data connector list, you discover that there is no specific connector for the Cassandra database.

You need to select an alternate data connector that will connect to the database.

Which type of connector should you choose?

A. Microsoft SQL Server database

B. ODBC

C. OLE DB

D. OData

Answer(s): B

---

19. DRAG DROP (Drag and Drop is not supported)

You receive annual sales data that must be included in Power BI reports.

From Power Query Editor, you connect to the Microsoft Excel source shown in the following exhibit.

⊞. A⁵C Month	1²₃ MonthNumber	1²₃ 2019	1²₃ 2020	1²₃ 2021
1 Jan	1	345	5526	3456
2 Feb	2	758	773	0
3 Mar	3	37763	570	null
4 Apr	4	8364	9417	null
5 May	5	58256	276	null
6 June	6	6722	235	null
7 July	7	55225	6297	null
8 Aug	8	673	63	null
9 Sep	9	552	357	null
10 Oct	10	7838	24214	null
11 Nov	11	83544	257	null
12 Dec	12	32455	389	null

You need to create a report that meets the following requirements:

-Visualizes the Sales value over a period of years and months

-Adds a slicer for the month

-Adds a slicer for the year

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Select the Month and MonthNumber columns.
- Select **Unpivot other columns**.
- Rename the Attribute column as Year and the Value column as Sales.
- Select the 2019, 2020, and 2021 columns.
- Select **Transpose**.

Answer Area

1

2

3

A. See Explanation section for answer.

Answer(s): A

---

20. HOTSPOT (Drag and Drop is not supported)

You are using Power BI Desktop to connect to an Azure SQL database.

The connection is configured as shown in the following exhibit.

SQL Server database

Server ⓘ

mydb.database.windows.net

Database (optional)

db1

Data Connectivity mode ⓘ

◉ Import
○ DirectQuery

▲ Advanced options

Command timeout in minutes (optional)

SQL statement (optional, requires database)

☑ Include relationship columns
☐ Navigate using full hierarchy
☐ Enable SQL Server Failover support

OK   Cancel

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 solution is worth one point.

Answer Area

The default timeout for the connection from Power BI Desktop to the database will be   ▼

unlimited
one minute
10 minutes

The Navigator will display   ▼

all the tables
only tables that contain data
only tables that contain hierarchies

A. See Explanation section for answer.

Answer(s): A