## **MCQ**

1. **Which M code function is used to remove duplicate rows from a table in Power Query Editor?**

a) Table.SelectRows

b) Table.Distinct

c) Table.RemoveMatchingRows

d) Table.RemoveDuplicates

1. **In DAX, what is the primary difference between a calculated column and a measure?**

a) Calculated columns are computed during data refresh; measures are computed during query time.

b) Calculated columns can be used in slicers; measures cannot.

c) Measures can be used in slicers; calculated columns cannot.

d) There is no difference; both are computed during data refresh.

1. **Which DAX function is used to create a calculated table by filtering rows from an existing table?**

a) FILTER

b) CALCULATETABLE

c) SUMMARIZE

d) ADDCOLUMNS

1. **What does the DAX function ALL() do when used in a measure?**

a) Removes all filters from the specified table or column.

b) Applies all filters to the specified table or column.

c) Returns all unique values from a column.

d) Calculates the total sum of a column.

1. **In Power Query M code, which function is used to merge two tables based on a common column?**

a) Table.Join

b) Table.Combine

c) Table.NestedJoin

d) Table.Union

1. **Which DAX function would you use to create a running total in a calculated column?**

a) SUMX

b) CALCULATE

c) EARLIER

d) TOTALYTD

1. **What is the purpose of the 'RELATED' function in DAX?**

a) To filter a table based on related tables.

b) To retrieve a value from a related table.

c) To create a relationship between two tables.

d) To remove relationships between tables.

1. **In Power Query M code, how do you change the data type of a column to text?**

a) Table.TransformColumnTypes

b) Table.ChangeType

c) Table.ConvertType

d) Table.TransformTypes

1. **Which DAX function returns a table with a single column of unique values?**

a) VALUES

b) DISTINCT

c) UNION

d) INTERSECT

1. **What is the result of the DAX expression: DIVIDE(5, 0, -1)?**

a) Infinity

b) 0

c) -1

d) Error

## **Subjective**

1. Write a DAX formula to calculate the cumulative total of sales in a 'Sales' table, considering the 'OrderDate' column.
2. Provide a DAX formula to create a calculated column that extracts the year from a date column named 'OrderDate' in the 'Sales' table.
3. How can you create a DAX measure to calculate the average sales amount per customer in the 'Sales' table?
4. Write a DAX formula to create a calculated table that contains only the distinct product categories from the 'Products' table.
5. Provide a DAX formula to calculate the percentage of total sales for each product in the 'Sales' table.
6. How would you write a DAX formula to create a calculated column that categorizes sales amounts in the 'Sales' table as 'High' for amounts greater than 1000 and 'Low' otherwise?
7. Provide a DAX formula to calculate the running total of sales for the current year in the 'Sales' table, considering the 'OrderDate' column.
8. Write a DAX formula to create a measure that counts the number of unique customers who made purchases in the 'Sales' table.
9. How can you create a DAX measure to calculate the highest sales amount recorded in the 'Sales' table?
10. Provide a DAX formula to create a calculated column that returns the month name from a date column named 'OrderDate' in the 'Sales' table.
11. We have a table in the data model called **"Enhanced Sales Data"** that contains product categories along with their respective products and total sales for each product. Create a calculated table that displays the **percentage contribution of each product to the total revenue**.

Note: Refer to the “Enhanced Sales Data” excel.