**PowerBi Functions**

**SWITCH**: Function for conditions

Age\_Group = SWITCH(

    TRUE(),

    'credit\_card cust\_detail'[Customer\_Age] < 30, "Less then 30",

    'credit\_card cust\_detail'[Customer\_Age] >= 30 && 'credit\_card cust\_detail'[Customer\_Age] < 40, "30 To 40",

    'credit\_card cust\_detail'[Customer\_Age] >= 40 && 'credit\_card cust\_detail'[Customer\_Age] < 50, "40 To 50",

    'credit\_card cust\_detail'[Customer\_Age] >= 50 && 'credit\_card cust\_detail'[Customer\_Age] < 60, "50 To 60",

    'credit\_card cust\_detail'[Customer\_Age] >= 60, "Greater then 60",

    "Unknown"

    )

This function is making a new column name Age\_Group that will take age values from the age column and then apply condition to give string on the given age condition.

**Arithmetic Operations:** Arithmetic operation are same +,-,\*,/ between column values

Revenue = 'credit\_card cc\_detail'[Annual\_Fees] + 'credit\_card cc\_detail'[Total\_Trans\_Amt] + 'credit\_card cc\_detail'[Interest\_Earned]

Finding revenue from adding values of above mentioned columns.

**WEEKNUM**: This function is used to find the week number from the dates column.

Week\_Num\_2 = WEEKNUM('credit\_card cc\_detail'[Week\_Start\_Date])

**Calculate**: This function is used to calculate values based on filters as well.

Current\_Week\_Revenue = CALCULATE(

    SUM('credit\_card cc\_detail'[Revenue]),

    FILTER(ALL('credit\_card cc\_detail'), 'credit\_card cc\_detail'[Week\_Num\_2] = MAX('credit\_card cc\_detail'[Week\_Num\_2])))

AND

Previous\_Week\_Revenue = CALCULATE(

    SUM('credit\_card cc\_detail'[Revenue]),

    FILTER(ALL('credit\_card cc\_detail'), 'credit\_card cc\_detail'[Week\_Num\_2] = MAX('credit\_card cc\_detail'[Week\_Num\_2])-1))

To find the sum of any value by week no.

**DIVIDE**: This function is used to divide the values of certain columns.

Change\_By\_Week = DIVIDE(([Current\_Week\_Revenue]-[Previous\_Week\_Revenue]),[Previous\_Week\_Revenue])

We used this function to find the change by week, and after this we selected Change\_By\_Week column and change it to % from the tool bar. Also we applied **Conditional Formating**  from  **Visualization tab,** we selected **Data Bars**.

