PowerBI DAX Query Templates

This document outlines the DAX query changes to retrieve values from specific columns in a single or multiple tables in PowerBI.

Table Name - Overall Tab - Customer

Single Cell Dax Query

To retrieve a single row value without encountering an error due to multiple rows, we can enhance the query with additional filters. The DAX Query used is as follows:

```
EVALUATE
SELECTCOLUMNS(
   FILTER(
      '<<TableName>>',
      '<<TableName>>'[<<ColumnName>>] = <<FilterValue>>
         && '<<TableName>>'[<<ColumnName>>] = "<<FilterValue>>"
         && '<<TableName>>'[<<ColumnName>>] = <<FilterValue>>
   ),
   "Value", '<<TableName>>'[<<ColumnName>>]
)
```

Result

In this DAX query, we received a single row value for the check-in value. We can use this query without displaying any error message and use the row value as check-in value.

Query for sum of single column value

```
EVALUATE
{
   VAR sumValue =
      SUMX(
         FILTER(
            '<<TableName>>',
            '<<TableName>>'[<<FilterColumn>>] = "<<FilterValue>>"
         ),
         '<<TableName>>'[<<AggregationColumn>>]
      )
   RETURN
      sumValue
}
```

Result

In this DAX query, we received a single value for the check-in value. We will be able to use this query without displaying any error message.

Sum/Average/Count of Multiple Columns

Count

```
EVALUATE
{
   VAR countValue1 =
      COUNTAX(
```

```
        FILTER(
            '<<TableName>>',
            '<<TableName>>'[<<FilterColumn1>>] = "<<FilterValue1>>"
        ),
        '<<TableName>>'[<<CountColumn1>>]
    )
  VAR countValue2 =
    COUNTAX(
        FILTER(
            '<<TableName>>',
            '<<TableName>>'[<<FilterColumn2>>] = "<<FilterValue2>>"
        ),
        '<<TableName>>'[<<CountColumn2>>]
    )
  RETURN
    countValue1 + countValue2
}
```

Result

In this DAX query, we received a single row value for the check-in value. We can use this query without displaying any error and use the count value as check-in value.

Sum

```
EVALUATE
{
  VAR countValue1 =
    SUMX(
        FILTER(
            '<<TableName>>',
            '<<TableName>>'[<<FilterColumn1>>] = "<<FilterValue1>>"
        ),
        '<<TableName>>'[<<SumColumn1>>]
    )
  VAR countValue2 =
```

```
    SUMX(
        FILTER(
            '<<TableName>>',
            '<<TableName>>'[<<FilterColumn2>>] = "<<FilterValue2>>"
        ),
        '<<TableName>>'[<<SumColumn2>>]
    )
RETURN
    (countValue1 - countValue2) / <<Divisor>>
}
```

Result

In this DAX query, we received a single value for the check-in value. We can use this query without displaying any error message.

Average

```
EVALUATE
{
    VAR countValue1 =
        AVERAGEX(
            FILTER(
                '<<TableName>>',
                '<<TableName>>'[<<FilterColumn1>>] = "<<FilterValue1>>"
            ),
            '<<TableName>>'[<<AverageColumn1>>]
        )
    VAR countValue2 =
        AVERAGEX(
            FILTER(
                '<<TableName>>',
                '<<TableName>>'[<<FilterColumn2>>] = "<<FilterValue2>>"
            ),
            '<<TableName>>'[<<AverageColumn2>>]
```

```
    )
  RETURN
    (countValue1 + countValue2) / <<Divisor>>
}
```

Result

In this DAX query, we received a single row value for the check-in value. We can use this query without displaying any error message.

Query for getting column values from multiple tables

```
EVALUATE
{
  VAR Average1 =
    SUMX(
      FILTER(
        '<<TableName1>>',
        '<<TableName1>>'[<<FilterColumn1a>>] = "<<FilterValue1a>>"
          && '<<TableName1>>'[<<FilterColumn1b>>] = <<FilterValue1b>>
      ),
      '<<TableName1>>'[<<SumColumn1>>]
    )
  VAR Average2 =
    SUMX(
      FILTER(
        '<<TableName2>>',
        '<<TableName2>>'[<<FilterColumn2a>>] = "<<FilterValue2a>>"
          && '<<TableName2>>'[<<FilterColumn2b>>] = <<FilterValue2b>>
      ),
      '<<TableName2>>'[<<SumColumn2>>]
    )
  RETURN
    Average1 - Average2
}
```

Result

In this DAX query, we received a single value for the check-in value. We can use this query without displaying any error message.