

PowerBI DAX Query Templates

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

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>>"
            )
        )
    RETURN
        countValue1
}
```

```

    ),
    '<<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.