Power BI DAX

Use “Test Data.xlsx” (Sheet1) to perform the following operations.

1. Create a Measure to calculate the Floor/Ceiling/Fact/Mod/Round values of a number.

```
Meas_ceiling = CEILING(11.65,1)
Meas_Floor = FLOOR(11.95,2)
Measure_fact = FACT(14)
Measure_Mod = MOD(34,5)
Measure_round = ROUND(11.677787,2)
```

2. Create a measure to calculate the Sum value based on the filter condition using the SUMX function. (Filter condition: Category= “Furniture”)

```
Measure_sumx = SUMX(Filter(sheet1,[Category]=="Furniture"),Sheet1[Sales])
```

3. Create a measure to concatenate a Unicode character with a calculation.

```
Meas_concat = CONCATENATE(MAX(Sheet1[Quantity])*MAx(Sheet1[Sales]),UNICHAR(9940
))
```

4. Convert 20201030(yyyymmdd) to 30 Oct 2020(date datatype) using LEFT/RIGHT function.

```
ChangedDate = DATE(LEFT([Old_Date],4),MID([Old_Date],5,2),RIGHT([Old_Date],2))
```

5. Create a measure to calculate the length of a string.

```
Meas_len_string = LEN(Max(Sheet1[Product Name]))
```

6. Create a measure to convert lower case value to upper case.

```
Meas_lower_case = LOWER(MAX(Sheet1[Category]))
```

7. Create a measure to convert upper case to lower case.

```
Meas_upper_case = UPPER(MAX(Sheet1[Category]))
```

8. Copy a particular column from the other table which is having many to one relationship between the table, using Related function.

9. Select the distinct value from a table using the Distinct function.

```
tab_dis_col = DISTINCT(Sheet1[Category])
```

10. Capture the selected value from the slicer, default shows it as "Not Selected". Use card visuals to display the value.

```
Meas_deflt_slicer = IF(SELECTEDVALUE(Sheet1[Category])=Blank(),"Not Selected",
                        IF(MAX('Sheet1'[Category])="Office Supplies","OS",
                                IF(MAX(Sheet1[Category])="Technology","Tec",
                                    IF(MAX(Sheet1[Category])="Furniture","Fur"))))
```

11. Combine two table which has the same numbers of columns in both tables, using the Union function.
12. Combine two tables which having is different sets of columns in both the tables, using the Union and Summarize function. (Use “CA Sales.csv” and “DE Sales.csv” to perform the operation)
13. Create a measure to concatenate a Unicode character with a calculation, use Variable to perform the operation.
14. Create a measure to compare columns containing Odd/Even/ISNUMBER/TEXT Values.

```
    is_Even = IF(ISEVEN(MAX(Different_data_table[Number_value])),"Max Of Nmber_value is
Even","Not Even)" )

is_odd = IF(ISODD(MIN(Different_data_table[Number_value])),"Min Of Nmber_value is ODD","Min Of
Nmber_value is  NOT ODD" )

Measure_isNUm = If(ISNUMBER(Max(Different_data_table[Text_value])),"Number","Not a number")
```

15. Create a calculated column to calculate DenseRANK and SKIPRANK values.

```
Column_DenseRank = RANKX(Rank_demo,Rank_demo[Price],,ASC,Dense)
Column_skipRank = RANKX(Rank_demo,Rank_demo[Price],,ASC,SKIP)
```

16. Create a measure to count the row as DistinctCount, Count, and DistinctRowCount.

17. Create a table to calculate TOP 10 values from another table

```
Top_Table = TOPN(10,'CA Sales','CA Sales'[Revenue],ASC) .
```

18. Create a DimDate table using the CALENDAR () function and add the following column into it-

```
Dim_Date_Table = CALENDAR(MIN(Sheet1[Order Date]),MAX(Sheet1[Order Date]))
```

- Year ()

```
Column_Year = YEAR(Dim_Date_Table[Date])
```

- MonthNo ()

```
Column_month_no = Month(Dim_Date_Table[Date])
```

- Quarter ()

```
Column_quarter = QUARTER(Dim_Date_Table[Date])
```

- WeekNo ()

```
Column_week_No = WEEKNUM(Dim_Date_Table[Date])
```

- WeekDay ()

```
Column_week_day = WEEKDAY(Dim_Date_Table[Date])
```

- Day ()

```
Column_day = DAY(Dim_Date_Table[Date])
```

-

19. Create a dynamic title using the if Else statement.

```
Meas_dynamic_Cat = IF(MAX('Sheet1'[Category])="Office Supplies","OS",
                            IF(MAX(Sheet1[Category])="Technology","Tec",
                        IF(MAX(Sheet1[Category])="Furniture","Fur",
                                    "Other")))
```

20. Capture Current date in date and date-time format.

```
Meas_today = Now()
```

References:

https://radacad.com/get-a-field-value-from-a-related-table-in-power-bi-dax-related-function-explained