Question 1

12

Meas_ceiling

10

Meas_Floor

87.1...

Measure_fact

4

Measure_Mod

Question 2: SumX with filter Condition category - "Furniture"

742K

Measure_sumx

11.68

Measure_round

Question 3: Measure with calculation and unicode

316932 

Meas_concat

Question 4: Convert 20201030(yyyymmdd) to 30 Oct 2020(date

October 30, 2020

Earliest ChangedDate

Question: 5,6,7
length, Upper and Lower case

Meas_len_string	Category	Meas_lower_case	Meas_upper_case
53	Furniture	furniture	FURNITURE
26	Office Supplies	office supplies	OFFICE SUPPLIES
33	Technology	technology	TECHNOLOGY
26		**technology**	**TECHNOLOGY**

Question9: Distnct function

Category
Furniture
Office Supplies
Technology

Question 8: Related Function: Column related category is created using related function

Product Subcategory

EnglishProductSubcategoryName	ProductSubcategoryKey	Column_rel_category	Proc
Bike Racks	26	Accessories	
Bike Stands	27	Accessories	
Bottles and Cages	28	Accessories	
Cleaners	29	Accessories	
Fenders	30	Accessories	
Helmets	31	Accessories	
Hydration Packs	32	Accessories	
Lights	33	Accessories	
Locks	34	Accessories	
Panniers	35	Accessories	
Pumps	36	Accessories	
Tires and Tubes	37	Accessories	
Mountain Bikes	1	Bikes	
Road Bikes	2	Bikes	

Product Category

ProductCategoryKey	EnglishProductCategoryName
4	Accessories
1	Bikes
3	Clothing
2	Components

Question 11: Combine two table using union function

TabeA

Sum of id	Name
1	Product1
2	Product2
3	product3
4	product4
15	

TableB

id	Name	Value
12	Product12	1200
13	product13	2300
14	product14	4500
15	Product15	899
54		**8899**

TableAunionB

id	Name	Value
1	Product1	100
12	Product12	1200
13	product13	2300
14	product14	4500
15	Product15	899
2	Product2	200
3	product3	300
4	product4	400
5	product5	500
69		**10399**

Question 10: Slicer with Default as "Not Selected"

Question 12: Combine two tables using union and summarize the result

Union of CA and DE Sales

ProductID	Revenue	Units	Zip	Country
194	102,732.80	203	10115	Germany
392	287,594.61	398	10117	Germany
521	279,651.77	613	10119	Germany
103	67,360.98	104	10178	Germany
6	3,815.87	6	10179	Germany
923	488,773.05	961	10243	Germany
639	304,993.95	666	10245	Germany
486	263,418.91	488	10247	Germany
5	5,273.53	5	10249	Germany
271	151,594.13	273	10315	Germany
11	4,555.29	11	10317	Germany
607	386,809.65	612	10318	Germany
570	367,517.04	603	10319	Germany
943	488,786.02	966	10365	Germany
216	137,300.51	219	10367	Germany
309390	**166,047,005.83**	**321874**		

Summary table according to country and Rank

Country	Year	Reveneu_by_country
Germany	2006	10,111,268.63
Germany	2007	9,887,454.31
Germany	2004	9,775,034.46
Germany	2005	9,759,472.17
Germany	2003	9,746,123.65
Germany	2008	9,348,343.69
Germany	2002	9,145,549.77
Germany	2001	7,829,050.38
Germany	2009	7,161,470.99
Germany	2014	6,984,804.82
Germany	2000	6,907,838.85
Germany	2013	6,566,484.36
Germany	2010	6,435,329.07
Germany	2012	6,170,555.92
Germany	2011	6,082,311.96
Total		**166,047,005.83**

Question 13: Variable and unicode operation

6/30/2015

Measure_unicode

Question 14: Measure to compare columns containing odd even, text value

id	Measure_isNUm	Number_value	Text_value
	Not a number		
1	Not a number	13	1
2	Not a number	11	Some text
3	Not a number	45	34
4	Not a number	56	56
5	Not a number	64	67
Total	**Not a number**	**189**	

Min Of Nmber_value is ODD

is_odd

Not a number

Measure_isNUm

Max Of Number_value is Even

is_Even

Is Text

Measure_isText

Question 16: DistinctCount, Count, and DistinctRowCount.

10K

Meas_Count

5009

Meas_Distinct_Count

10K

Meas_Row_Count

Question 15: Skip Rank and Dense Rank

Id	Name	Price	Column_skipRank	Column_DenseRank
3	Plums		1	1
7	Apple		1	1
1	Apricot	10	3	2
2	Raspberry	12	4	3
4	Peach	12	4	3
5	Banana	15	6	4
10	Tangerine	15	6	4
6	Mango	20	8	5
8	Grapes	23	9	6
9	Cherry	56	10	7
Total		**163**	**52**	**36**

Question 17 :TOP N Table

Country	ProductID	Date	Revenue
Canada	2	6/13/2014 12:00:00 AM	0.00
Canada	2	3/31/2011 12:00:00 AM	47.20
Canada	2	1/15/1999 12:00:00 AM	52.45
Canada	4	2/15/1999 12:00:00 AM	52.45
Canada	6	3/15/1999 12:00:00 AM	52.45
Canada	6	4/15/1999 12:00:00 AM	52.45
Canada	2	5/15/1999 12:00:00 AM	52.45
Canada	4	6/15/1999 12:00:00 AM	52.45
Canada	2	7/15/1999 12:00:00 AM	52.45
Canada	12	8/15/1999 12:00:00 AM	52.45
Canada	2	9/15/1999 12:00:00 AM	52.45
Total	**48**		

Question18: Dim_Date Table

Column_Year	Column_quarter	Column_month_no	Column_week_No	Column_week_day	Cc
2017	1	1	2	1	
2017	1	1	3	1	
2017	1	1	4	1	
2017	1	1	5	1	
2017	1	1	1	2	
2017	1	1	2	2	
2017	1	1	3	2	
2017	1	1	4	2	
2017	1	1	5	2	
2017	1	1	1	3	
2017	1	1	2	3	

Question 19: Dynamic title with if else statement

Category

- [ ] Furniture
- [x] Office Supplies
- [ ] Technology

OS

Meas_dynamic_Cat

Question 20: Current Date time

3/21/2022 10:14:30 AM

Meas_today

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