DAX CALCULATED COLUMNS

In the DATA view, add the calculated column named “Name of Day” in the Calendar table.

```
Name of Day = FORMAT('Calendar'[date], "dddd")
```

1) In the DATA view, add the following calculated columns: In the Calendar table, add a column named "Weekend" Equals "Y" for Saturdays or Sundays (otherwise "N")

```
Weekend = IF('Calendar'[Name of Day] = "Saturday" || 'Calendar'[Name of Day] = "Sunday", "Y", "N")
```

2) In the Calendar table, add a column named "End of Month" Returns the last date of the current month for each row

```
End Of Month = EOMONTH('Calendar'[date],0)
```

date	Start of Week	Start of Month	Name of Month	Quarter of Year	Year	Name of Day	Weekend	End Of Month
01/07/1997	29/06/1997	01/07/1997	July	3	1997	Tuesday	N	31/07/1997
02/07/1997	29/06/1997	01/07/1997	July	3	1997	Wednesday	N	31/07/1997
03/07/1997	29/06/1997	01/07/1997	July	3	1997	Thursday	N	31/07/1997
04/07/1997	29/06/1997	01/07/1997	July	3	1997	Friday	N	31/07/1997
05/07/1997	29/06/1997	01/07/1997	July	3	1997	Saturday	Y	31/07/1997
06/07/1997	06/07/1997	01/07/1997	July	3	1997	Sunday	Y	31/07/1997

3) In the Customers table, add a column named "Current Age" Calculates current customer ages using the "birthdate" column and the TODAY() function

```
Current Age = DATEDIFF(Customers[birthdate], TODAY(), YEAR)
```

```
1 Current Age = DATEDIFF(Customers[birthdate], TODAY(), YEAR)
```

	education	acct_open_date	member_card	occupation	homeowner	full_name	birth_year	has_children	Current Age
0	High School Degree	16/11/1994	Bronze	Manual	N	Bertha Jameson	1948	Y	76
0	High School Degree	05/05/1992	Bronze	Manual	N	Ole Weldon	1931	Y	93
0	High School Degree	26/06/1994	Bronze	Manual	N	Paul Alcorn	1973	Y	51
0	High School Degree	09/02/1990	Bronze	Manual	N	Jared Bustamante	1910	Y	114
0	High School Degree	15/03/1992	Bronze	Manual	N	Margaret Adams	1979	Y	45
0	High School Degree	02/03/1994	Bronze	Manual	N	Vanessa Tench	1930	Y	94
0	High School Degree	04/06/1993	Bronze	Manual	N	Catherine Whitney	1966	Y	58

4) In the Customers table, add a column named "Priority" Equals "High" for customers who own homes and have Golden membership cards (otherwise "Standard")

```
Priority = IF(Customers[member_card] = "Golden" && Customers[homeowner] = "Y", "High", "Standard")
```

```
1 Priority = IF(Customers[member_card] = "Golden" && Customers[homeowner] = "Y", "High", "Standard")
```

education	acct_open_date	member_card	occupation	homeowner	full_name	birth_year	has_children	Current Age	Priority
High School Degree	16/11/1994	Bronze	Manual	N	Bertha Jameson	1948	Y	76	Standard
High School Degree	05/05/1992	Bronze	Manual	N	Ole Weldon	1931	Y	93	Standard
High School Degree	26/06/1994	Bronze	Manual	N	Paul Alcorn	1973	Y	51	Standard
High School Degree	09/02/1990	Bronze	Manual	N	Jared Bustamante	1910	Y	114	Standard
High School Degree	15/03/1992	Bronze	Manual	N	Margaret Adams	1979	Y	45	Standard

5) In the Customers table, add a column named "Short_Country" Returns the first three characters of the customer country, and converts to all uppercase

```
Short_Country = UPPER(LEFT(Customers[customer_country], 3))
```

```
1 Short_Country = UPPER(LEFT(Customers[customer_country], 3))
```

cct_open_date	member_card	occupation	homeowner	full_name	birth_year	has_children	Current Age	Priority	Short_Country	H
07/06/1993	Bronze	Manual	Y	Stefanie Almanzor	1974	Y	50	Standard	USA	
05/03/1994	Bronze	Manual	Y	David Harris	1962	Y	62	Standard	USA	
21/06/1993	Bronze	Skilled Manual	Y	Richard Brumfield	1977	N	47	Standard	CAN	
23/09/1993	Bronze	Skilled Manual	N	Debra Couch	1948	N	76	Standard	CAN	
07/10/1993	Bronze	Skilled Manual	Y	Stephanie Wilson	1921	N	103	Standard	CAN	
18/07/1994	Bronze	Skilled Manual	N	Hope Scott	1948	N	76	Standard	CAN	
22/01/1991	Bronze	Skilled Manual	N	Fae Caprio	1973	N	51	Standard	CAN	

6) In the Customers table, add a column named "House Number" Extracts all characters/numbers before the first space in the "customer_address" column

```
House_Number = LEFT(Customers[customer_address], SEARCH(" ", Customers[customer_address]) -1)
```

```
1 House_Number = LEFT(Customers[customer_address], SEARCH(" ", Customers[customer_address]) -1)
```

en_date	member_card	occupation	homeowner	full_name	birth_year	has_children	Current Age	Priority	Short_Country	House_Number
16/11/1994	Bronze	Manual	N	Bertha Jameson	1948	Y	76	Standard	USA	3029
05/05/1992	Bronze	Manual	N	Ole Weldon	1931	Y	93	Standard	USA	5754
26/06/1994	Bronze	Manual	N	Paul Alcorn	1973	Y	51	Standard	USA	4822
09/02/1990	Bronze	Manual	N	Jared Bustamante	1910	Y	114	Standard	USA	4222
15/03/1992	Bronze	Manual	N	Margaret Adams	1979	Y	45	Standard	USA	8452
02/03/1994	Bronze	Manual	N	Vanessa Tench	1930	Y	94	Standard	USA	6621

7) In the Products table, add a column named "Price_Tier" Equals "High" if the retail price is >$3, "Mid" if the retail price is >$1, and "Low" otherwise

```
Price_Tier = SWITCH(TRUE(), Products[product_retail_price] > 3, "High", Products[product_retail_price] > 1, "Mid", "Low")
```

```
1 Price_Tier = SWITCH(TRUE(), Products[product_retail_price] > 3, "High", Products[product_retail_price] > 1, "Mid", "Low")
```

product_name	product_sku	product_retail_price	product_cost	product_weight	recyclable	low_fat	discount_price	Price_Tier
Cream Soda	64412155747	$3.64	$1.64	10.6	1	0	$3.276	High
Diet Soda	85561191439	$2.19	$0.77	6.66	1	0	$1.971	Mid
Diet Cola	20191444754	$2.61	$0.91	18	1	0	$2.349	Mid
Orange Juice	89770532250	$2.59	$0.8	8.97	1	0	$2.331	Mid
Apple Juice	22114084362	$1.42	$0.5	8.13	1	0	$1.278	Mid
Canned String Beans	85252254605	$2.67	$1.17	12.6	1	0	$2.403	Mid
Noodle Soup	32829326987	$1.75	$0.56	10.6	1	0	$1.575	Mid

8) In the Stores table, add a column named "Years_Since_Remodel" Calculates the number of years between the current date (TODAY()) and the last remodel date

```
Years_Since_Remodel = DATEDIFF(Stores[last_remodel_date], TODAY(), YEAR)
```