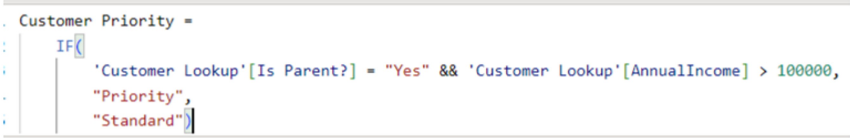
Power BI - DAX - p4 - Lecture 18

ASSIGNMENT: LOGICAL FUNCTIONS

1.Create a calculated column in the Customer Lookup table named Customer Priority:

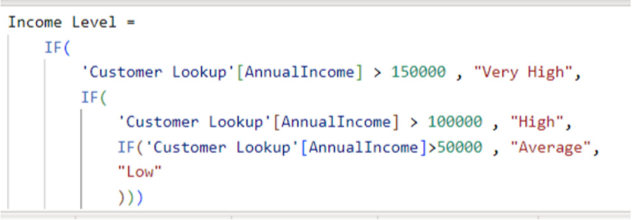
- If the customer is a parent and has an annual income > $100,000, Customer Priority = Priority
- Otherwise, Customer Priority = Standard



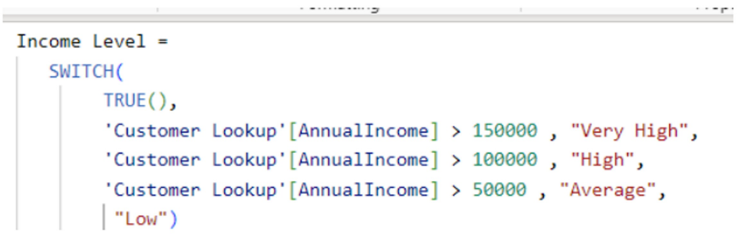
```
Customer Priority =
    IF(
        'Customer Lookup'[Is Parent?] = "Yes" && 'Customer Lookup'[AnnualIncome] > 100000,
        "Priority",
        "Standard")
```

2.Create a calculated column in the Customer Lookup table named Income Level:

- If annual income is >= $150,000, Very High
- If annual income is >= $100,000, High
- If annual income is >= $50,000, Average
- Otherwise, Income Level = Low



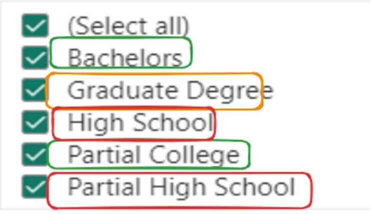
```
Income Level =
    IF(
        'Customer Lookup'[AnnualIncome] > 150000 , "Very High",
        IF(
            'Customer Lookup'[AnnualIncome] > 100000 , "High",
            IF('Customer Lookup'[AnnualIncome]>50000 , "Average",
            "Low"
            )))
```

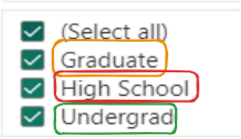


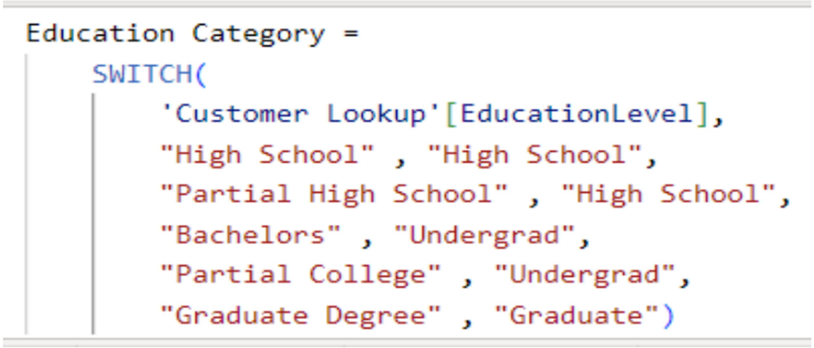
```
Income Level =
   SWITCH(
        TRUE(),
        'Customer Lookup'[AnnualIncome] > 150000 , "Very High",
        'Customer Lookup'[AnnualIncome] > 100000 , "High",
        'Customer Lookup'[AnnualIncome] > 50000 , "Average",
         "Low")
```

BONUS: Use a SWITCH function* to create another column named Education Category:

- If EducationLevel is High School or Partial High School, Education Category = High School
- If EducationLevel is Bachelors or Partial College, Education Category = Undergrad
- If EducationLevel is Graduate Degree, Education Category = Graduate


☑ (Select all)
☑ Bachelors
☑ Graduate Degree
☑ High School
☑ Partial College
☑ Partial High School


☑ (Select all)
☑ Graduate
☑ High School
☑ Undergrad

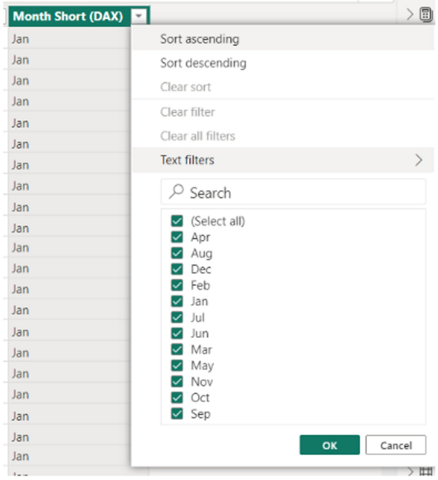

```
Education Category =
    SWITCH(
        'Customer Lookup'[EducationLevel],
        "High School" , "High School",
        "Partial High School" , "High School",
        "Bachelors" , "Undergrad",
        "Partial College" , "Undergrad",
        "Graduate Degree" , "Graduate")
```

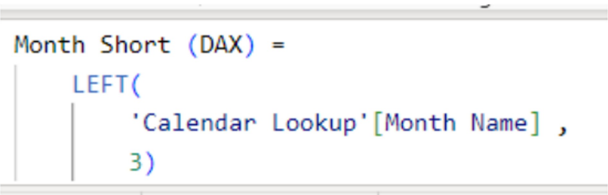
TEXT FUNCTIONS

LEN	Returns the number of characters in a string	=LEN(Text)
CONCATENATE	Joins two text strings into one	=CONCATENATE(Text1, Text2)
UPPER /LOWER	Converts a string to upper or lower case	=UPPER/LOWER (Text)
LEFT/ RIGHT/MID	Returns a number of characters from the start/middle/end of a text string	=LEFT/RIGHT(Text, [NumChars]) =MID(Text, StartPosition, NumChars)
SUBSTITUTE	Replaces an instance of existing text with new text in a string	=SUBSTITUTE(Text, OldText, NewText, [InstanceNumber])
SEARCH	Returns the position where a specified string or character is found, reading left to right	=SEARCH(FindText, WithinText, [StartPosition], [NotFoundValue])

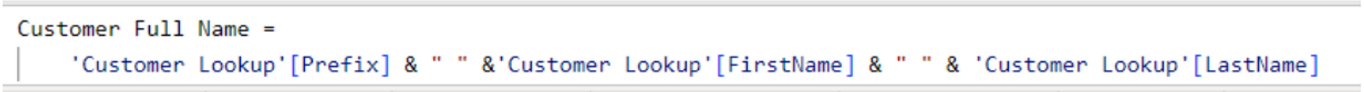
2

"-1"





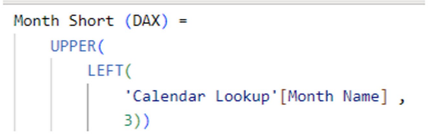
```
Month Short (DAX) =
    LEFT(
        'Calendar Lookup'[Month Name] ,
        3)
```



```
Customer Full Name =
    'Customer Lookup'[Prefix] & " " &'Customer Lookup'[FirstName] & " " & 'Customer Lookup'[LastName]
```

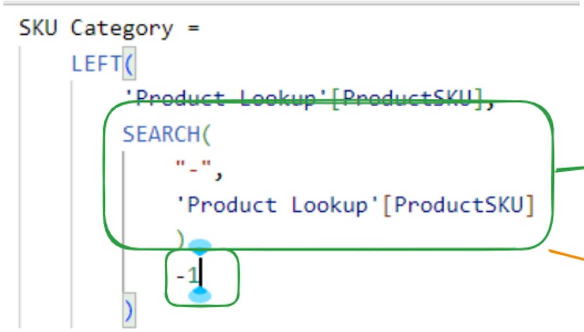
ASSIGNMENT: TEXT FUNCTIONS

1. Update the Month Short column in the Calendar Lookup table to extract and capitalize the first 3 characters of the month name.



```
Month Short (DAX) =
    UPPER(
        LEFT(
            'Calendar Lookup'[Month Name] ,
            3))
```

2. Create a new column in the Product Lookup table named SKU Category, to return any number of characters before the first hyphen in the ProductSKU column.

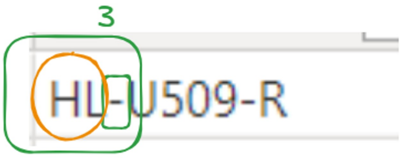


```
SKU Category =
    LEFT(
        ~~'Product Lookup'[ProductSKU],~~
        SEARCH(
            "-",
            'Product Lookup'[ProductSKU]
            )
            -1
        )
```

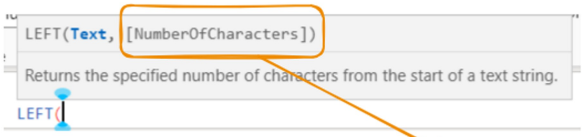
3

No. of character

3



HL [SKU Category]



```
LEFT(Text, [NumberOfCharacters])
Returns the specified number of characters from the start of a text string.
LEFT(
```

3 index for the first "-"