1) **Create new queries to connect to the (AdventureWorks_Product_Categories) and (AdventureWorks_Product_Subcategories) files from the course resources:**

2) **Make the following modifications to the AW_Product_Lookup query:**
   • Add a calculated column that extracts all characters before the dash ("-") in the ProductSKU column, named "SKUType"
   • Update the SKUType calculation above to return all characters before second dash, instead of the first

• **Replace zeros (0) in the ProductStyle column with "NA"**

AᴮC ProductStyle ▼
4 distinct, 0 unique
0
0
U
U
0
U
U
U
U
U
U
U
U
U
U
U

AᴮC ProductStyle ▼
4 distinct, 0 unique
NA
NA
U
U
NA
U
U
U
U
U
U
U
U
U
U
U

• **Update the DiscountPrice calculation to 15%, by multiplying the ProductPrice values by 0.85 (instead of 0.9)**

1.2 NewDiscountPrice ▼
107 distinct, 47 unique
29.7415
28.59757
8.075
8.075
28.59757
7.34757
40.857205
40.857205
40.857205
40.857205
1073.94083
1073.94083
1073.94083
1073.94083
1073.94083
252.98941
252.98941
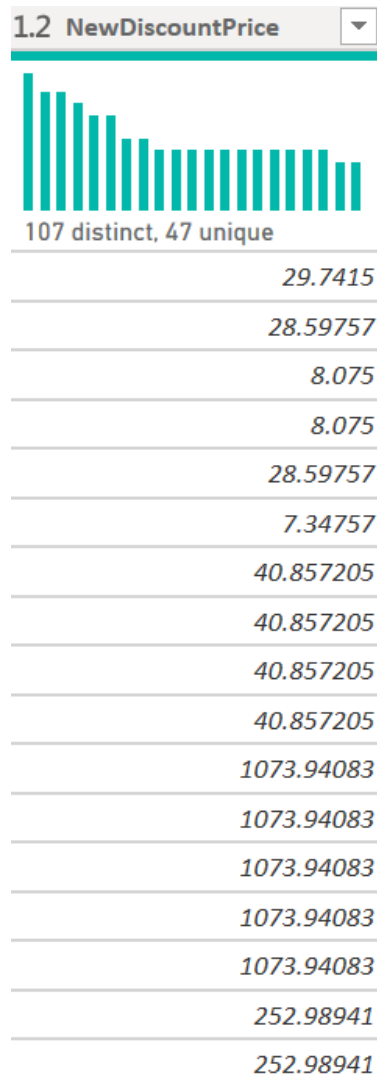
3) **Using the Statistics tools in the Query Editor, confirm the following values :**
   • **Average product cost ($413.66)**

413.66100921501641

   • **Number of distinct product colors (10)**

10

   • **Number of distinct customer names (18,110)**

18110

- **Maximum annual customer income ($170,000)**
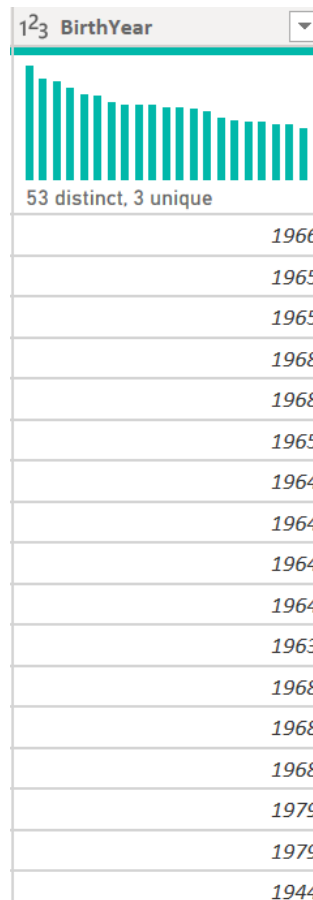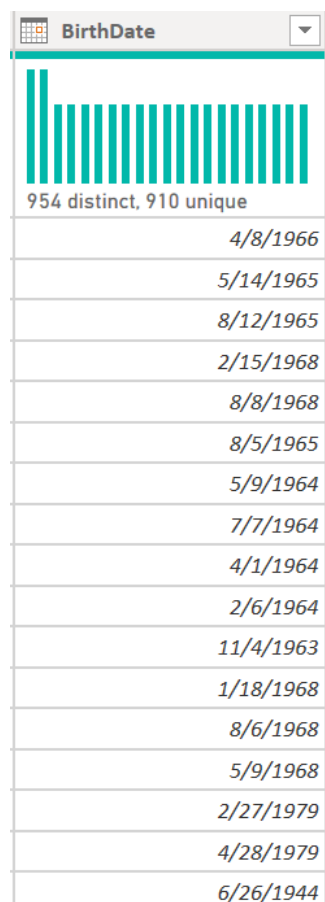
170000

- **Count of order numbers (56,046)**

??

- **Count of distinct order numbers (25,164)**

??

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4) **Make the following modifications to the AW_Customer_Lookup query:**

- **Add a new calculated column for the year of birth (named "BirthYear"), based on BirthDate**

BirthDate		BirthYear
954 distinct, 910 unique		53 distinct, 3 unique
4/8/1966		1966
5/14/1965		1965
8/12/1965		1965
2/15/1968		1968
8/8/1968		1968
8/5/1965		1965
5/9/1964		1964
7/7/1964		1964
4/1/1964		1964
2/6/1964		1964
11/4/1963		1963
1/18/1968		1968
8/6/1968		1968
5/9/1968		1968
2/27/1979		1979
4/28/1979		1979
6/26/1944		1944

• Add a conditional column to categorize customer income (named "IncomeLevel"), based on the following criteria :
 • If AnnualIncome >= $150,000, then IncomeLevel = "Very High"

• If AnnualIncome >= $100,000, then IncomeLevel = "High"

• If AnnualIncome >= $50,000, then IncomeLevel = "Average" • Otherwise IncomeLevel = "Low"

Add Conditional Column

Add a conditional column that is computed from the other columns or values.

New column name

IncomeLevel

	Column Name	Operator	Value ⓘ		Output ⓘ	
If	AnnualIncome ▾	is greater than or... ▾	123 ▾	150000	Then	123 ▾ Very High	
Else If	AnnualIncome ▾	is greater than or... ▾	123 ▾	100000	Then	123 ▾ High	···
Else If	AnnualIncome ▾	is greater than or... ▾	123 ▾	50000	Then	123 ▾ Average	···

Add Clause
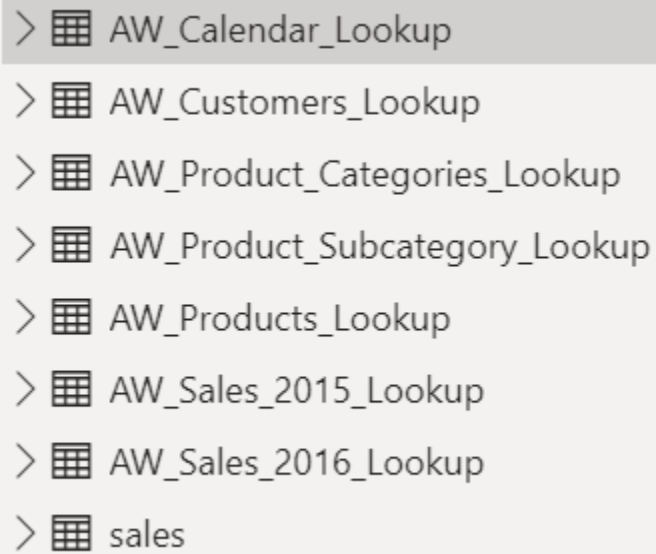
Else ⓘ

123 ▾ | Low

$ **AnnualIncome** ▾	ABC 123 **IncomeLevel** ▾
16 distinct, 0 unique	
90,000.00	Average
60,000.00	Average
60,000.00	Average
70,000.00	Average
80,000.00	Average
70,000.00	Average
60,000.00	Average
60,000.00	Average
70,000.00	Average
70,000.00	Average
60,000.00	Average
100,000.00	High
100,000.00	High
100,000.00	High
30,000.00	Low
30,000.00	Low
20,000.00	Low

5) Apply all changes, and confirm that new tables and fields are accessible within both the Data and Relationships views

> ⊞ AW_Calendar_Lookup
> ⊞ AW_Customers_Lookup
> ⊞ AW_Product_Categories_Lookup
> ⊞ AW_Product_Subcategory_Lookup
> ⊞ AW_Products_Lookup
> ⊞ AW_Sales_2015_Lookup
> ⊞ AW_Sales_2016_Lookup
> ⊞ sales