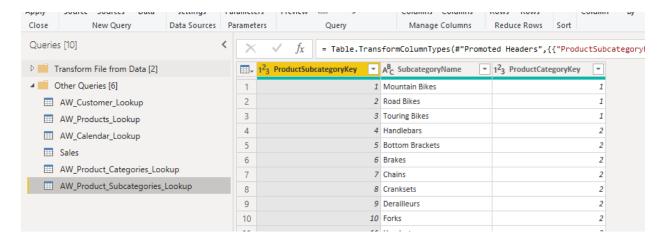
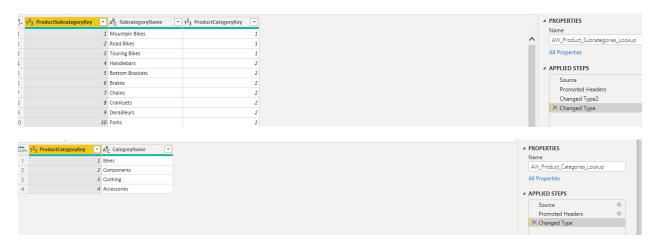
Using your Adventure Works Power BI file, complete the following:

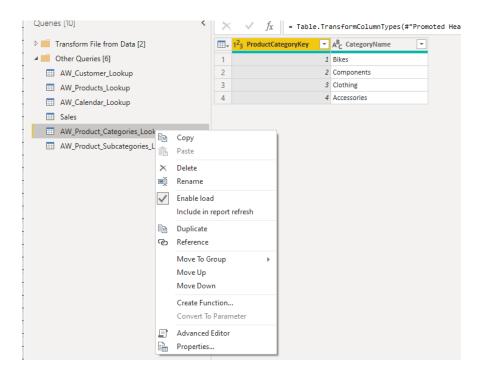
- 1) Create new queries to connect to the (AdventureWorks Product Categories) and (AdventureWorks Product Subcategories) files from the course resources:
- Name your queries (AW Product Category Lookup) and (AW Product Subcategory Lookup)



 Confirm that headers have been promoted and that detected data types are correct

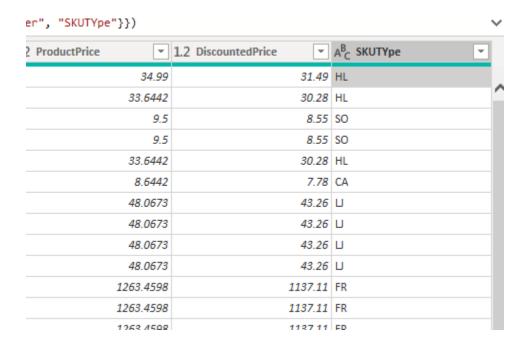


· Disable the report refresh option for both connections

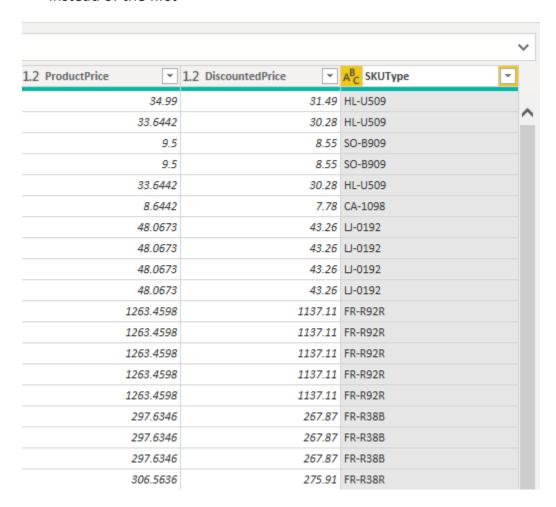


2) Make the following modifications to the AW_Product_Lookup query:

 Add a calculated column that extracts all characters before the dash ("-") in the ProductSKU column, named "SKUType"



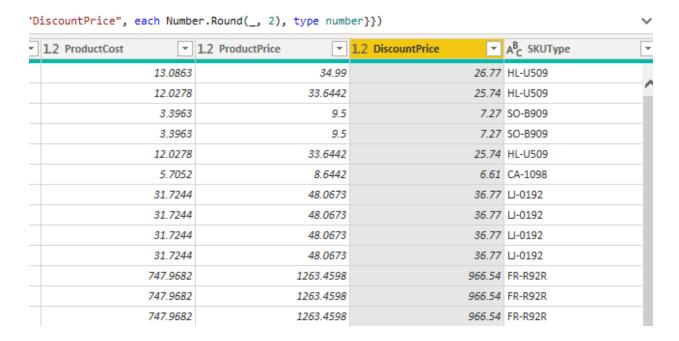
 Update the SKUType calculation above to return all characters before second dash, instead of the first



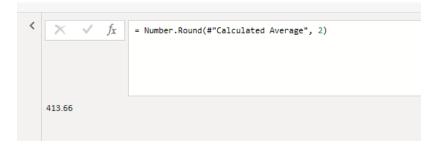
• Replace zeros (0) in the ProductStyle column with "NA"

ReplaceValue(#"Renamed Columns2","0","N/A",Replacer.ReplaceText,{"ProductStyle"}) ▼ A^B_C ProductColor ▼ A^B_C ProductSize ▼ 1.2 ProductCost ▼ 1.2 ProductPrice 34 Red N/A 13.0863 n visor. 0 N/A 0 12 0278 33 64 n visor. Black U М ays dry and provides just... White 3.3963 U ays dry and provides just... White 3.3963 0 N/A 12.0278 33 64 0 U 5.7052 8.64 ıg jersey S U 31.7244 48.0€ М U 31.7244 48.06 ig jersey U 48.06 31.7244 ig jersey U 48.0€ XL 31.7244 U 62 747.9682 1263.45 made from the newest a... Red 44 U 1263.45 made from the newest a... Red 747.9682 U 48 1263.45 made from the newest a... Red 747.9682

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



- 3) Using the Statistics tools in the Query Editor, confirm the following values:
- Average product cost (\$413.66)

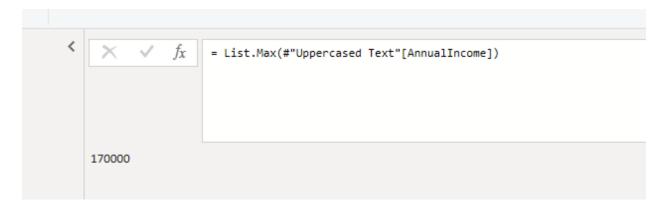


• Number of distinct product colors (10)



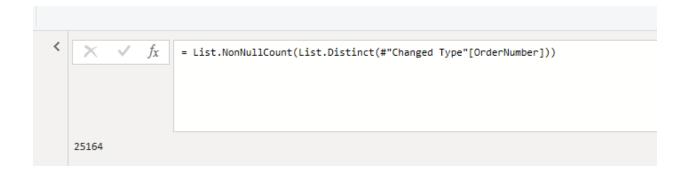
• Number of distinct customer names (18,110)

• Maximum annual customer income (\$170,000)



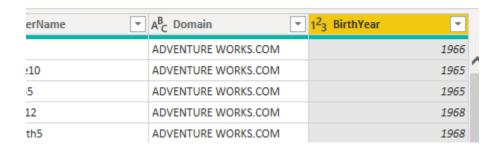
• Count of order numbers (56,046)

Count of distinct order numbers (25,164)

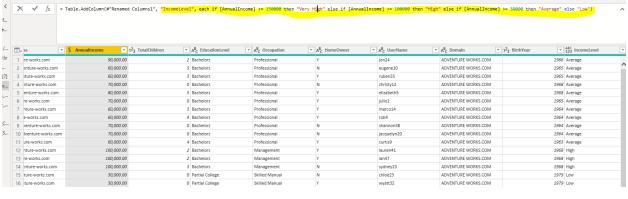


4) Make the following modifications to the **AW Customer Lookup** guery:

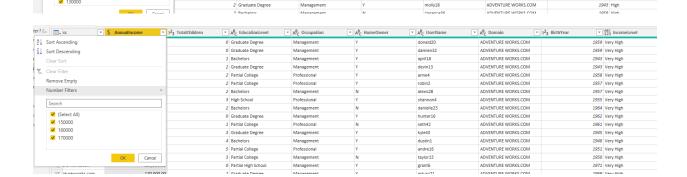
 Add a new calculated column for the year of birth (named "BirthYear"), based on BirthDate



- 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"







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5) Apply all changes, and confirm that new tables and fields are accessible within both the **Data** and **Relationships** views (recommend saving a backup copy of the report (i.e. "AdventureWorks_Report_Backup"))

