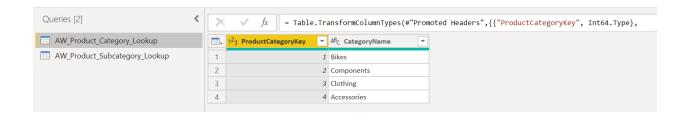
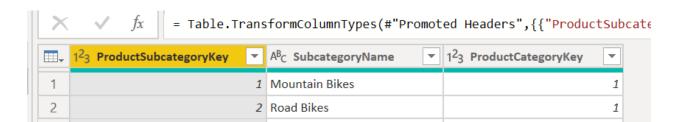
1) Create new queries to connect to the (AdventureWorks_Product_Categories) and (AdventureWorks_Product_Subcategories) files from the course resources:

 Name your queries (AW Product Category Lookup) and (AW Product Subcategory Lookup)

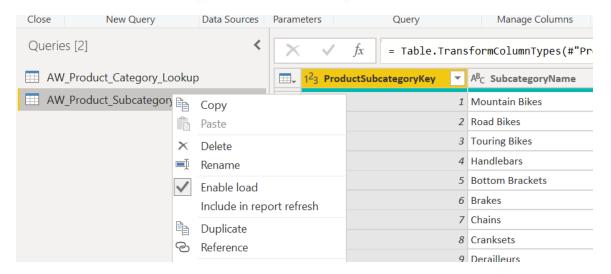


 Confirm that headers have been promoted and that detected data types are correct



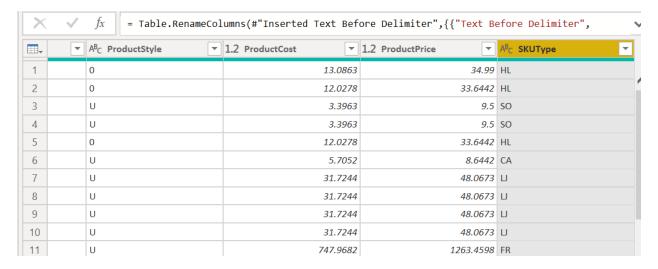


Disable the report refresh option for both connections

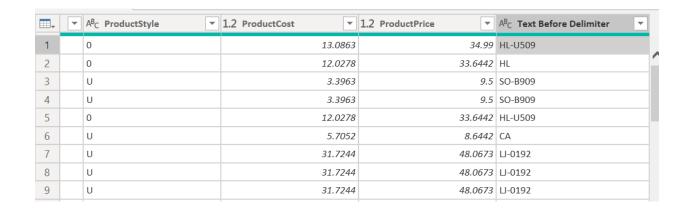


2) Make the following modifications to the AW Product Lookup query:

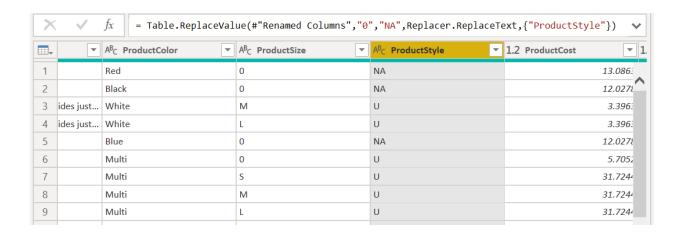
 Add a calculated column that extracts all characters before the dash ("-") in the ProductSKU column, named "SKUType"



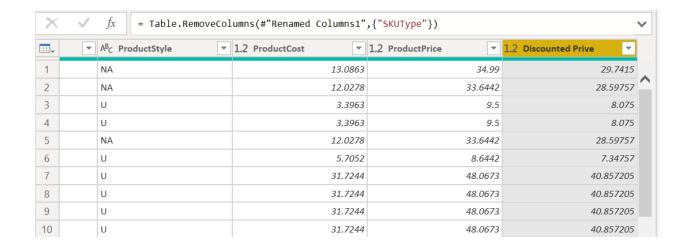
 Update the SKUType calculation above to return all characters before second dash, instead of the first



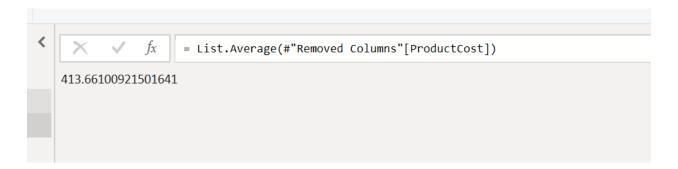
• Replace zeros (0) in the ProductStyle column with "NA"



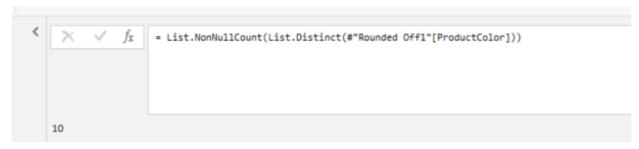
 Update the DiscountPrice calculation to 15%, by multiplying the ProductPrice values by 0.85 (instead of 0.9)



3) Using the Statistics tools in the Query Editor, confirm the following values :



• Number of distinct product colors (10)



Number of distinct customer names (18,110)

```
= List.NonNullCount(List.Distinct(#"Uppercased Text"[Full Name]))

18110
```

Maximum annual customer income (\$170,000)

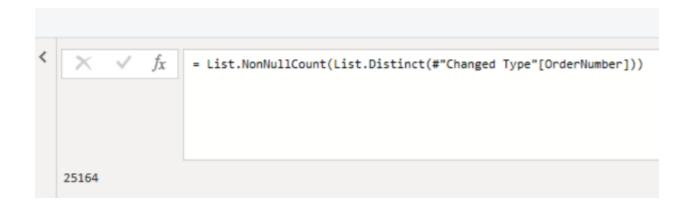


Count of order numbers (56,046)

```
= List.NonNullCount(#"Changed Type"[OrderNumber])

56046
```

Count of distinct order numbers (25,164)

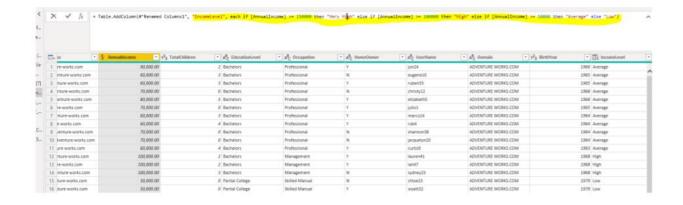


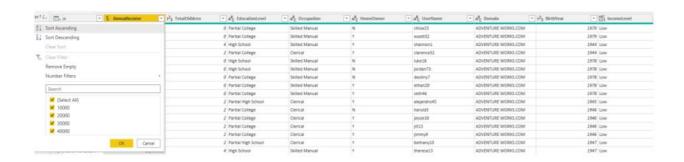
4) Make the following modifications to the AW Customer Lookup query:

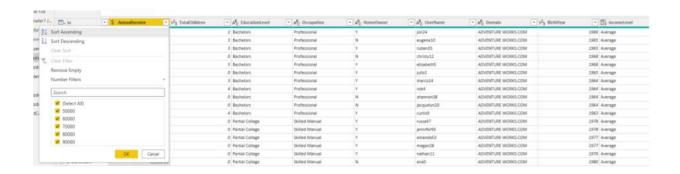
 Add a new calculated column for the year of birth (named "BirthYear"), based on BirthDate

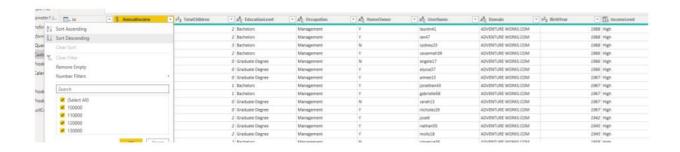
erName	▼ A ^B _C Domain	₹ 1 ² 3 BirthYear	v
	ADVENTURE WORKS	S.COM	1966
:10	ADVENTURE WORKS	S.COM	1965
5	ADVENTURE WORKS	S.COM	1965
12	ADVENTURE WORKS	S.COM	1968
th5	ADVENTURE WORKS	S.COM	1968

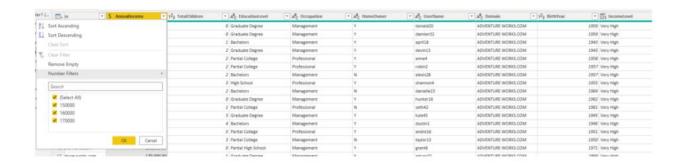
- Add a conditional column to categorize customer income (named "IncomeLevel"), based on the following criteria:
 - If AnnualIncome >= \$150,000, then IncomeLevel = "Very High"
 - If AnnualIncome >= \$100,000, then IncomeLevel = "High"
 - If AnnualIncome >= \$50,000, then IncomeLevel = "Average"
 - Otherwise IncomeLevel = "Low"











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"))

