**Assignments 4:**

**Math & Stats Functions**

Using the **FoodMart\_Data\_Model**workbook, complete the following steps

**1)** Create new measures to calculate the **maximum** *product\_retail\_price*(**[Max Retail Price]**) and the **minimum** *product\_retail\_price*(**[Min Retail Price]**), assign both measures to the **Product\_Lookup** table, and format as **currency** with two decimal places.

* Which tables in the model are "legal" to pull into the pivot when you're analyzing these measures as values?
* Pull in *product\_brand* as **row labels**. What's the maximum retail price for "Green Ribbon" products?

**2)** Create a new measure to calculate the **average** *customer\_age* (**[Average Age]**), assign to the **Customer\_Lookup** table, and format as a **decimal number** with one decimal place.

* Update your PivotTable layout to show *customer\_city* on rows. What's the average age of customers who live in Imperial Beach?

**3)** Create a new measure to calculate the **total number of customers**(**[Total Customers]**) based on the number of rows in the **Customer\_Lookup**table, and format as a **whole number** with a thousands separator.

* Pull *gender*into rows. How many female customers overall? Male customers?

**4)** Create a new measure to calculate the **number of unique cities**(**[Unique Cities]**) based on the *customer\_city* field in the **Customer\_Lookup** table, and format as a **whole number** with a thousands separator.

* Pull *customer\_country*into rows. How many unique customer cities are represented by customers from Mexico? From the USA?

**ANSWERS:**

**1)** *See image below:*

A screenshot of a computer

Description automatically generated

**1a)** *Any connected and downstream tables:* ***Transactions****,****Returns****, and****Product\_Lookup***

**1b) *$3.11***

**2)** *See image below:*

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**2a)** ***73.8 (Note: Since age is based on the TODAY() function, this value will change over time)***

**3)** ***5,097****female customers and****5,184****male customers*

**4)** ***13****unique cities from customers in Mexico,****78****unique cities from customers in USA*