**Assignment 6:**

**CALCULATE, FILTER & ALL**

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

**1)** Use **CALCULATE** to create a new measure that evaluates the total quantity of Low-Fat products sold (**[Low-Fat Quantity Sold]**). What was the total Low-Fat quantity sold for "High Top" product brand products?

**2)**Use**CALCULATE**and **ALL**to create a new measure that always returns the *overall*total quantity (**[Overall Total Quantity]**)

* Divide **[Low-Fat Quantity Sold]** by **[Overall Total Quantity]** to calculate a new measure named **[Low-Fat Sales %]**
* Update your PivotTable layout to show **[Low-Fat Sales %]** by *customer\_country*. Which country accounts for the largest share of low-fat products sold? The smallest share?

**3)** Create a new Excel table named **Age\_Threshold**in a new worksheet, with a column header named *Age\_Threshold* and the following row values: **50, 60, 70, 80, 90, 100.**

* Load the table to the data model, but leave it disconnected from other tables
* Drag *Age\_Threshold*into a PivotTable as a **slicer**
* Create a new measure to "harvest" the minimum slicer value selected (**[Minimum Age]**)
* Pull **[Minimum Age]**into the pivot and confirm that the values update with each slicer selection
* Create a new measure to calculate the total transactions for customers older than the selected threshold (**[Trans Above Age Threshold]**)

**4)**Update your PivotTable layout to show **[Minimum Age]** and **[Trans Above Age Threshold]** on values, with *customer\_city*on rows.

* Add **conditional formatting**to bring the transaction values to life -- your choice!
* How many transactions were there in **Coronado** among customers above the age threshold of **80**? How about in **Royal Oak**, among customers older than **100**?

**ANSWERS:**

**1) *10,635***

**2a)** *See image below:*

A screenshot of a computer

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**2b)** ***USA****(23.73%),****Canada****(2.07%)*

**3)** *See image below: (****Note****: you may see slightly different results as customers "age" over time)*

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**4a)** *N/A*

**4b)** ***553****transactions for customers over the age of 80 in Coronado,****27****transactions for customers over the age of 100 in Royal Oak (****Note:****these numbers will change over time since age is based on the volatile TODAY() function)*