**HOMEWORK: Intro to “Power Excel”**

**1)** Before continuing to the next section of the course, please check your copy of Excel and confirm that you have access to Power Query and Power Pivot tools. For compatibility information, Google "*Where is Power Pivot?*" or visit support.office.com for the latest information from Microsoft.

**2)** Make sure that you've downloaded all of the individual CSV files, as well as the solution file if you’d like to use it for reference. For easy access, I'd recommend placing all course resource files in a single folder on your desktop.

**3)** Get ready to learn some incredible new tools!

**HOMEWORK: Power Query**

Using the **FoodMart\_Data\_Model** workbook, complete the following steps (*Answers below - no peeking!*)

**1)** Load the Region\_Lookup csv file from the course resources, and use the Query Editor to confirm that *region\_id* is formatted as a whole number and all other columns are formatted as text.

**2)** Edit the Customer\_Lookup query, and complete the following:

* Add a new column named *full\_name* that merges the *first\_name* and *last\_name* columns, separated by a space
* Create a new column named *birth\_year* to extract the year from the *birthdate* column, and format as text
* Create a conditional column named *has\_children* which equals "N" if *total\_children* = 0, otherwise "Y". Drag the new column next to *total\_children* and confirm that the values are populating correctly.
* Close and Load, then check the data model to confirm that the new fields are accessible.

**3)** Edit the Product\_Lookup query, and complete the following:

* Use the Query Editor to return the number of distinct product brands in the table. How many distinct brands are represented? How many distinct product names? Delete these applied steps and return the table to its original state.
* Find the applied step where we calculated *discount\_retail\_price* (*product\_retail\_price* \* 0.9), and click on the gear icon to edit the step. Adjust the discount from 0.9 to 0.8, then click through the remaining applied steps to confirm that the updated *discount\_retail\_price* is calculating properly.
* Select the *product\_brand* column and use the Group By option to calculate the average retail price by product brand (name the new column *average\_retail\_price*). Format as currency and round to two digits. What’s the average retail price for Ship Shape products? Delete these applied steps to return the table to its pre-grouped state.
* Close and Load, then check the data model to confirm the updated *discount\_retail\_price* values

**ANSWERS:**

**1)** *Refer to FoodMart\_SOLUTION\_FILE workbook in the course resources*

**2)** *Refer to FoodMart\_SOLUTION\_FILE workbook in the course resources*

**3a)*****111*** *distinct product brands,* ***1,560*** *distinct product names*

**3b)** *Refer to FoodMart\_SOLUTION\_FILE workbook in the course resources*

**3c)** *Average retail price for Ship Shape products:* ***$2.36***

**3d)** *Refer to FoodMart\_SOLUTION\_FILE workbook in the course resources*