**Assignment 1:**

**Connecting & Transforming Data with Power Query in Excel**

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

**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.
* **Close and Load**, then check the data model to confirm the updated *discount\_retail\_price* values.

**ANSWERS:**

**1)** *See image below:*

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**2a)** *See image below:*

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**2b)** *See image below:*

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**2c)** *See image below:*

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**2d)** *See image below:*

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

**3b)** *See image below:*

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

**3d)** *See image below:*

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