**Information Visualization**

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**Cars Dataset – Underlying observations using only excel:**

1. Avg Miles per gallon = 23.5145

2. sample set - most frequent car manufacturer = American (254 cars)

3. Avg Horse power = 105

4. Cars per country = American (254), Japanese (79) and European (73)

5. Cylinder deviation - before and after 80’s – Before the 80’s the average cylinders per car were around 5.8 (approximately 6). After 80’s they were reduced to 4.3 (approximately 4) cylinders per car.

**Cars Dataset – Things I cannot find out purely from Excel**

1. Relation between MPG and Horsepower – if HP affects MPG or not.

2. All or most common features in a manufacture’s cars is difficult to tell using excel.

3. Relation between Weight and Horsepower.

4. Most common features between European and American cars.

5. Most common features between European and American cars.

**Grocery Store Survey – Underlying observations using only Excel:**

1. Avg Age = 47.563

2. Avg Gender = More than 50% of subjects were Female (3014 out of 5163)

3. Avg Income = 37632.62

4. Payment method, most used = Cash (>50% of the times)

5. Avg Family size = 2.67

**Grocery Store Survey – Things I cannot find out purely from Excel:**

1. Relation between profession and annual income.

2. Relation between Gender and Profession.

3. Relation between Gender and annual income.

4. Relation between purchase amount and family size.

5. Relation between gender and family size.

1. HP and Acceleration