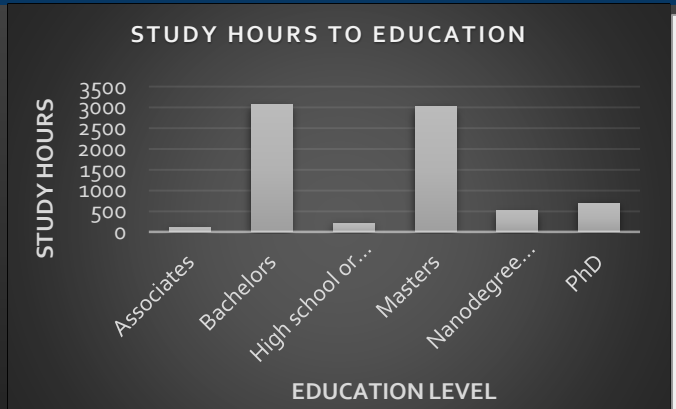
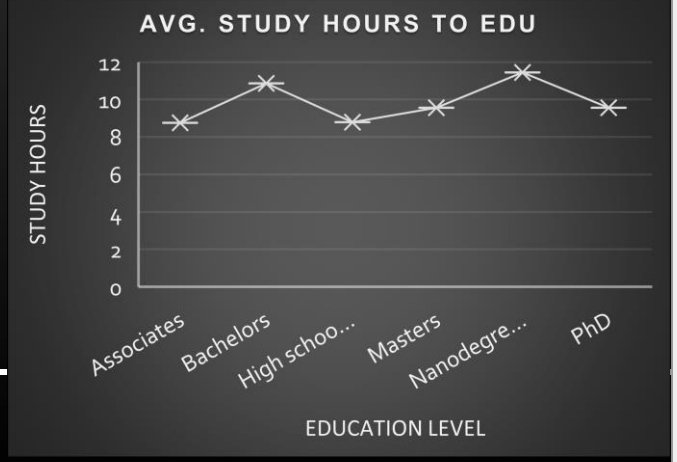
Questions raised from dataset

1. What are the Hours of study by educational level?
2. What are the Hours of study by age?
3. What are the Hours of study by employed and unemployed?
4. What are the hours of study by province?

STUDY HOURS TO EDUCATIONAL LEVEL



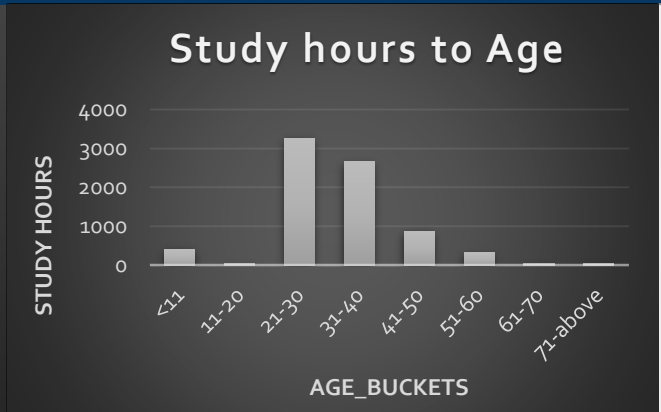


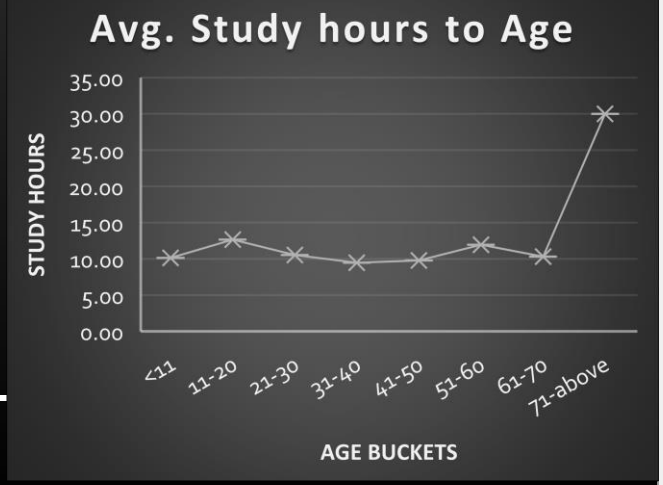
From the dataset given we had 5 different categories of educational level namely; Associates, Bachelors, High school or below, Masters, Nanodegree program & Phds. where they all had a **total tally** of 7,622 hours of study in a week.

On visualizing the data is was symmetrically distributed and **mean** hours of study was 10.12 hours, although some education level made an average 10 hours of study where some others passed or did not make up to the average hours of study as visualized with a boxplot graph. In comparing the different mean hours of study by educational level the **standard deviation** value was 1.10 which implies that yes the different levels of education study hours per week should be around 1.10 hours above or below 10.12 hours which was shown in the graph.

Further more, no outlier was discovered. The **mode** and **median** hours of study was 10 hours, and had study hours **range** of 80 per week.

HOURS OF STUDY BY AGE



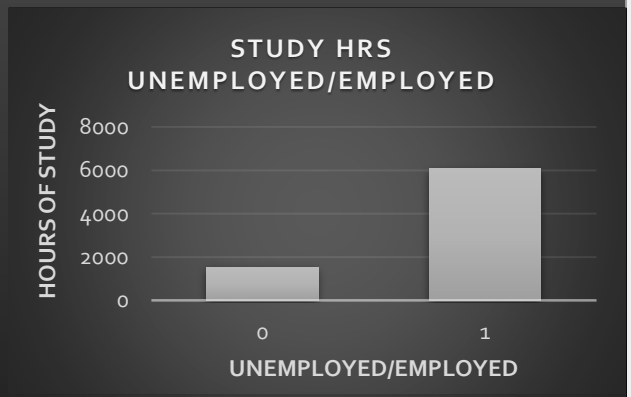


From the dataset given we had a long list of ages so I had to create an age bucket field which made analyzing the data easier. where they all had a **total tally** of 7,622 hours of study in a week.

On visualizing the data is was symmetrically distributed and **mean** hours of study was 10.12 hours, although some age buckets made an average 10 hours of study others did not , where some others passed the average hours of study as visualized with a boxplot graph. In comparing the different mean hours of study by age buckets the **standard deviation** value was 6.91 which implies that yes the different age buckets should be around 6.91 above or below 10 which was shown in the graph.

Further more, an outlier was discovered an age bucket of above 71 years of age averaged 30 hours study per week(that grand pa has a whole lot of time). The **mode** and **median** hours of study was 10 hours, and had study hours **range** of 80 hours per week.

HOURS OF STUDY BY UNEMPLOYED/EMPLOYED

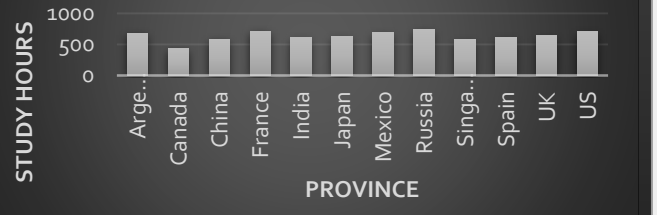


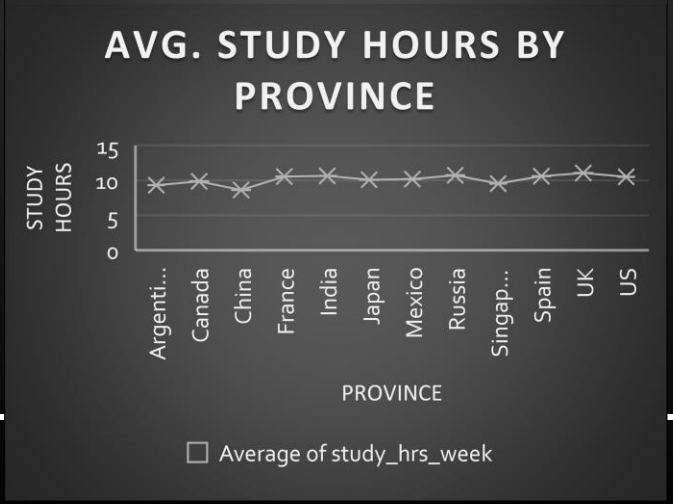
From the dataset given we had just two categories either unemployed or employed. where they both had a **total tally** of 7,622 hours of study in a week.

On visualizing the data is was skewed to the left and **mean** hours of was 10.12 hours, although we had just two categories. visualizing with a boxplot graph to compare the different mean hours of study by unemployed and employed the **standard deviation** value was 1.24 which implies that yes both unemployed and employed students study hours should be around 1.24 hours above or below 10 which was shown in the graph.

Further more, no outlier was discovered. The **mode** and **median** hours of study was 10 hours, and had study hours **range** of 80 hours per week.

STUDY HOURS BY PROVINCE





From the dataset given we had 11 different provinces. where they all had a **total tally** of 7,622 hours of study in a week.

On visualizing the data is was **normally distributed** and **mean** hours of was 10.12 hours although some provinces made an average 10 hours of study where some others passed the average hours of study while others did not make average as visualized with a **boxplot** graph. In comparing the different mean hours of study by province the **standard deviation** value was 0.70 which implies that yes the various provinces should average around 0.70 above or below 10 hours which was shown in the graph.

Further more, no **outlier** was discovered. The **mode** and **median** hours of study was 10, and had study hours **range** of 80 per week.