Riley Payung

CDS 301

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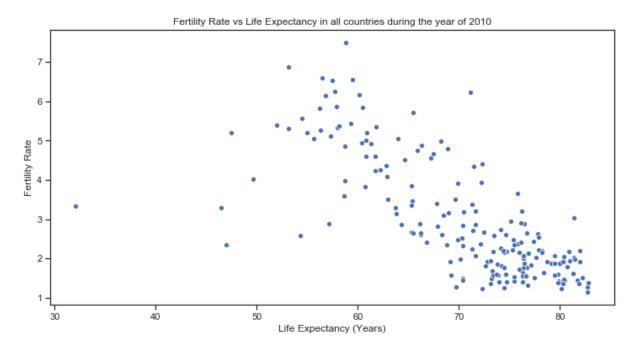
Assignment 5

Problem 1

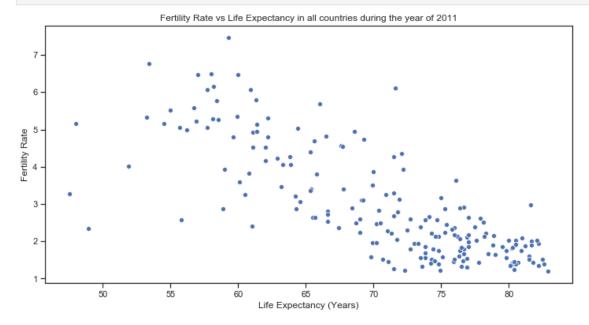
I wrote a function for selecting based on the year that visualizes the life-expectancy and fertility rate of ALL countries by the year:

```
def scatterYear(year):
df2 = pd.read_csv("./data/gapminder-1.csv")
df2.dropna()
df2 = df2.loc[df2['year'] == year];
fig = plt.figure(figsize=(12,6))
sns.scatterplot(df2['life-expectancy'],df2['fertility-rate'])
plt.title("Fertility Rate vs Life Expectancy in all countries during the year of " + str(year))
plt.xlabel("Life Expectancy (Years)")
plt.ylabel("Fertility Rate")
plt.show()
```

scatterYear(2010)



Interestingly, the year 2010 had the best rate, if we were to apply a linear regression, we would likely find that 2010 had the best fit.



Straight after the year of the best rate, it went back to normal.