CODAP Data Challenges Submission

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Q1.

Timeline

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Q2. According to the internet, the average weight of an 18-year-old guy or girl is 66.8 kg. Meanwhile, according to the National Health and Nutrition Examination Survey (NHANES), the average weight of an 18 year old in the United States is 71.2 kg, which exceeds the global average.

Q3 and Q4.

Chart, bar chart, treemap chart

Description automatically generated

**Education status and pregnancy**: Here, we can see that the maximum percentage (43%) of women who were pregnant complete their HS degree. This shows that most women consciously took the decision of having a baby after HS, probably at age 18+.

Chart, bar chart

Description automatically generated

Scatter chart

Description automatically generated with low confidence

**Pregnancy and marital status:** These graph show the correlation between marital status and age of pregnant women. Highest percentage of women (63%) who were pregnant were married. Similarly, we can see that most married women who are pregnant are around the age of 25-30, while the most number of pregnant women who are single are around 15-20.

Chart, bar chart

Description automatically generated

**Pregnancy and race:** This graph illustrates the distribution among various races in the US. It also tells us about the population density of various races and helps us in analyzing the potential racial division in the future.

Chart

Description automatically generated with low confidence

**Pregnancy and age:** This grapgh here tells us the age groups of pregnant women. We can see it is quite diverse with the highest percentage of women being in the age group of 20-25.

Chart

Description automatically generated with low confidence

**Pregnancy and household income:** Lastly, we can see what income group these people fall into, with the highest number of women being in the $75k+ range. This shows a sense of stability in lifestyle of people and how this affects the personal life decisions.

Q4. and Q5.

Chart, histogram

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**Anemia and Gender**: Here, it is very clearly observed that Females typically have lower iron levels, making them more prone to anemia, with an average of 76.7 compared to males' higher average of 92.6. This is confirmed from online sources as well.

Chart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generated

**Anemia and age:**

**Women**: Our of 940 females, 204 are anemic, considering the suggested levels of 50 or below.

**Men**: Out of 928 males, 134 are anemic, considering the suggested levels of 65 or below.

This means that on average, a total of 14.4% males are anemic, whereas 21% females are anemic. According to various sources, females are more prone to anemia and this statistic confirms the statement.

A picture containing chart

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**Anemia and race:** This graph shows an almost uniform distribution of iron levels among people of different races. Although the differences are minimal, it can be stated that white people are the least prone to anemia.