**SWB Exercise**

1. Produce a descriptive table analysing the mean, SD, P50, IQR, max and min or for categorial variables n and proportions for each variable of the database. Please note birthweight is in grams.

A screenshot of a computer

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1. Are there any outliers within your dataset? What should you do about this?

It can clearly be seen that a birthweight of 0 (and 27,003) shouldn’t be possible (outlier). In this scenario a box and whisker plot would help, to determine numbers:

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From here it can be seen, only 3 birthweights are above the box and whisker (and so can be excluded). And on the lower end other than 0, there are no need for further exclusions.

1. Produce a linear model looking at the relationship between:
   1. Low Birthweight (<2500g) and Stillbirth.

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* 1. Smoking and Stillbirth

A screenshot of a graph

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* 1. Smoking and Stillbirth while adjusting for low birthweight

A screenshot of a computer screen

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It can be seen after adjusting for lbw, smoking appears to be protective of stillbirth – this is due to collider bias spoken about within lecture, and not being mindful of what to and not to adjust for.