STA 108 Project 1

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Introduction

1

 \mathbf{a}

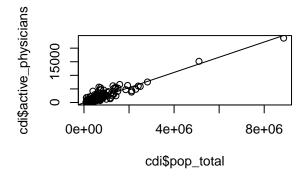
The estimated regression functions are:

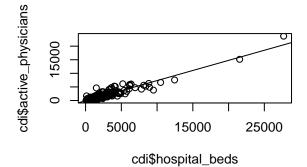
- 1. The number of active physicians in relation to total population is estimated by $\hat{Y} = -110.6347772 + 0.0027954X$.
- 2. The number of active physicians in relation to number of hospital beds is estimated by $\hat{Y}=-95.9321847+0.7431164X$.
- 3. The number of active physicians in relation to total per onsal income is estimated by $\hat{Y}=-48.3948489+0.1317012X.$

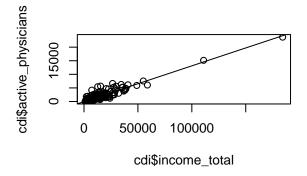
```
#b
par(mfrow = c(2,2))
plot(cdi$pop_total, cdi$active_physicians)
abline(model_1)

plot(cdi$hospital_beds, cdi$active_physicians)
abline(model_2)
```

plot(cdi\$income_total, cdi\$active_physicians)
abline(model_3)







 \mathbf{b}

c

 \mathbf{c}