

Materials for Project Workday 2/27

KHL

2024-02-27

Three Specific Research Questions

- How does educational attainment impact the personal earnings of an individual in the United States?
- Does the gender of a person impact their personal earnings in the United States?
- Does a person's health exhibit a correlation with their earnings in the United States?

Clearly Defined Observations

An observation is defined as an individual surveyed by the US Census with the responses for the following variables:

Race	RACE
Highest Education	H_ED
Gender	SEX
Total Household Income	TOT_IN
Total Personal Earnings	PEARNVAL
Marital Status	MARITL
Health Status	HEA
Previous Year of Residence	RES_DIV

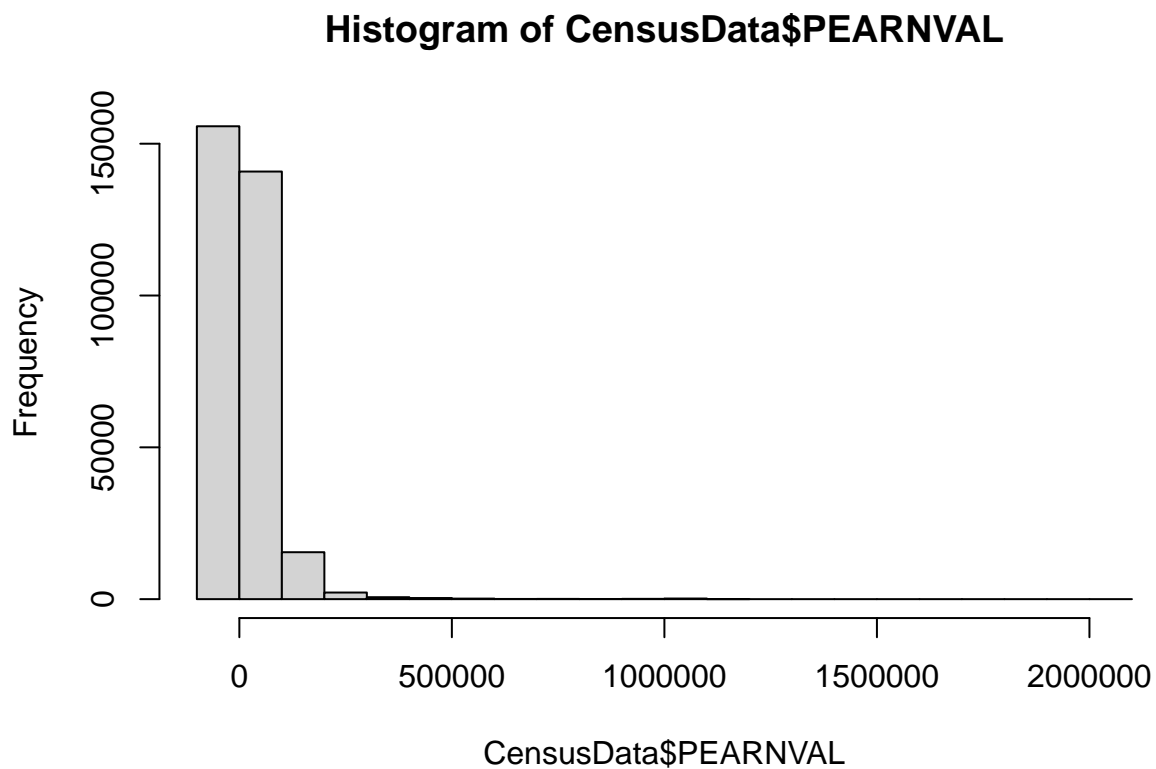
```
head(CensusData, n=1)
```

```
##   RACE H_ED SEX TOT_IN PEARNVAL MARITL HEA RES_DIV
## 1    1  39  2    22    52500     1   3     1
```

Response Variable

The response variable is “PEARNVAL,” referring to the personal earnings of a person.

```
hist(CensusData$PEARNVAL)
```



```
summary(CensusData$PEARNVAL)
```

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	-9999	0	932	29308	42000	2074999

Dataset

Chosen data sets: 2020+2021 Annual Social and Economic Benefits, Collected by the US Census <https://www.census.gov/data/datasets/2020/demo/cps/cps-asec-2020.html>
<https://www.census.gov/data/datasets/2021/demo/cps/cps-asec-2021.html>

```
head(CensusData, n=10)
```

##	RACE	H_ED	SEX	TOT_IN	PEARNVAL	MARITL	HEA	RES_DIV
## 1	1	39	2	22	52500	1	3	1
## 2	1	39	1	30	56000	1	3	1
## 3	1	39	1	18	34000	1	3	1
## 4	1	36	2	9	0	1	3	1
## 5	1	39	2	17	40000	5	2	1
## 6	1	39	2	1	0	5	5	1
## 7	1	39	1	4	8424	7	3	1
## 8	1	42	2	1	0	1	3	1
## 9	1	40	1	24	58000	1	2	1
## 10	1	39	1	1	0	7	1	1