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Exercise 1:
Check your current directory:
dir()
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Set your directory to Where you download the csv file setwd("~/desktop/....")

Now, go find a good data set from data.gov and download it to your working directory. Let's say we got something like this:

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id, name, salary, start_date, dept
1,Rick, 623.3,2012-01-01,IT
2,Dan,515.2,2013-09-23,Operations
3,Michelle,611,2014-11-15,IT
4,Ryan,729,2014-05-11,HR
5,Gary,843.25,2015-03-27,Finance
6,Nina,578,2013-05-21,IT
7,Simon,632.8,2013-07-30,Operations
8,Guru,722.5,2014-06-17,Finance
```

Let's make a csv using the data provided above.

Read the data created and name it data data <- read.csv("data.csv") print(data)

Let's see if it is actually a dataframe print(is.data.frame(data))

We do the normal stuff regarding knowing the columns and the rows ncol(data) nrow(data)

We wanna extract the maximum salary from the csv file and name it max max(data\$salary)

Let's get the row of the of that person who got the most salary subset(data, data\$salary == max(data\$salary))

We want to extract data for the IT department subset(data, data\$dept == "IT")

Get the persons whose id is bigger than 3 and salary is more than 500 subset(data, data\$salary >500 & data\$id > 3)

Get people who joined after 2019 subset(data.as.Date(start_date) > as.Date ("2019-01-01"))

Let's take out all NA in the data set na.omit(data)

Write a new csv file that contains only the persons whose id is bigger than 3 and print new data write.csv(subset(data\$id >3), "new.csv")

read.csv("new.csv")

What if I do not want the column with the row names?

write.csv(data,"output.csv", row.names = FALSE)

Exercise two

Now go to the built in data set and find an interesting dataset make that dataset a csv file

Find the standard deviation of all of the columns in that data set and export that information in a

Let's look at the internal structure of the csv files that you saved with str()

csv file