Exercise

Using the pipe %>%

The pipe `%>%` can be used to perform operations sequentially without having to define intermediate objects. After redefining murder to include rate and rank.

```
library(dplyr)
murders <- mutate(murders, rate =  total / population * 100000, rank = (-rate))
```

in the solution to the previous exercise we did the following:

```
# Created a table
my_states <- filter(murders, region %in% c("Northeast", "West") & rate < 1)

# Used select to show only the state name, the murder rate and the rank
select(my_states, state, rate, rank)
```

The pipe `%>%` permits us to perform both operation sequentially and without having to define an intermediate variable `my_states`

For example we could have mutated and selected in the same line like this:

```
mutate(murders, rate =  total / population * 100000, rank = (-rate)) %>%
    select(state, rate, rank)
```

script.R

```
# Load library
library(dplyr)

## Define the rate column
murders <- mutate(murders, rate =  total / population * 100000, rank =

# show the result and only include the state, rate, and rank columns,
that order
filter(murders,region %in% c("Northeast","West") & rate<1)%>%
    select(state, rate, rank)
```

R Console