hw-2

```
## -- Attaching packages -----
## v ggplot2 3.3.2
                     v purrr
                                0.3.4
## v tibble 3.0.3 v dplyr 1.0.2
           1.1.1
## v tidyr
                      v stringr 1.4.0
## v readr
           1.3.1
                     v forcats 0.5.0
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
rdata <- function(year){</pre>
 r=paste("data/",year,"_Fort_Collins_City_Employee_Earnings.csv",sep="")
 data <- read.csv(r)</pre>
  dataf <- data %>% select("Job.Title", "Department", "Earnings")
  dataf <-dataf %>% rename(job_title = Job.Title,
                  department = Department,
                   earnings = Earnings)
 dataf <- dataf %>% mutate_at(c("job_title","department"),tolower)
 dataf <- dataf %>% mutate(year=year)
 return(dataf)
}
data2018 <- rdata(2018)
data2017 <- rdata(2017)
data2016 <- rdata(2016)
data2015 <- rdata(2015)
data2014 <- rdata(2014)
data2013 <- rdata(2013)
data2012 <- rdata(2012)
data2011 <- rdata(2011)
data2010 <- rdata(2010)
data <-rbind(data2010,data2011,data2012,data2013,data2014,data2015,data2016,data2017,data2018)
datau <- data %>% group_by(department) %>% mutate(unique=n_distinct(job_title)) %>% filter(unique>25) %
## `summarise()` regrouping output by 'year' (override with `.groups` argument)
ggplot(data = datau)+ geom_line(aes(year,tot_earning,color=department))+
 labs(title="Department Earning by Year", x= "Year", y="Total Earning")
```

Department Earning by Westr

