

DS607_HW4_JagdishChhabria

Jagdish Chhabria

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```
library(RCurl)
```

```
## Loading required package: bitops
```

```
library(tidyr)
```

```
##
```

```
## Attaching package: 'tidyr'
```

```
## The following object is masked from 'package:RCurl':
```

```
##
```

```
##      complete
```

```
library(dplyr)
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      intersect, setdiff, setequal, union
```

```
library(reshape2)
```

```
##
```

```
## Attaching package: 'reshape2'
```

```
## The following object is masked from 'package:tidyr':
```

```
##
```

```
##      smiths
```

```
x<-getURL("https://raw.githubusercontent.com/Jagdish16/jagdish_r_repo/master/DATA607/Week5/airlinedelay")
```

```
airlinedata<-read.csv(text=x,header=TRUE)
```

```
airlinedata
```

```
##      Airline ArrivalStatus Los.Angeles Phoenix San.Diego San.Francisco
```

```
## 1  ALASKA      on time          497      221          212          503
```

```
## 2  ALASKA      delayed          62       12           20          102
```

```
## 3  AMWEST      on time          694     4840          383          320
```

```
## 4  AMWEST      delayed          117      415           65          129
```

```
##      Seattle
```

```
## 1      1841
```

```
## 2       305
```

```
## 3       201
```

```
## 4        61
```

```
airline.delays<-gather(airlinedata, key="Destination", value=NumberofFlights, 3:7)
```

```
colnames(airline.delays)<-c("Airline", "ArrivalStatus", "Destination", "NumberofFlights")
```

```
#airline.delays
```

```

airline.delays$Airline<-as.character(airline.delays$Airline)
airline.delays$Destination<-as.character(airline.delays$Destination)
airline.delays$ArrivalStatus<-as.character(airline.delays$ArrivalStatus)
alaska.ontime<-filter(airline.delays, Airline=="ALASKA",ArrivalStatus=="on time")
alaska.delayed<-filter(airline.delays, Airline=="ALASKA",ArrivalStatus=="delayed")
amwest.ontime<-filter(airline.delays, Airline=="AMWEST",ArrivalStatus=="on time")
amwest.delayed<-filter(airline.delays, Airline=="AMWEST",ArrivalStatus=="delayed")
#alaska.info<-alaska %>% group_by(ArrivalStatus) %>% mutate(sum(NumberofFlights))
alaska.delayed.prop<-sum(alaska.delayed$NumberofFlights)/(sum(alaska.ontime$NumberofFlights)+sum(alaska
alaska.delayed.prop

## [1] 0.1327152

amwest.delayed.prop<-sum(amwest.delayed$NumberofFlights)/(sum(amwest.ontime$NumberofFlights)+sum(amwest
amwest.delayed.prop

## [1] 0.1089273

cat("The analysis shows that a higher proportion of flights across all destinations were delayed for Alas

## The analysis shows that a higher proportion of flights across all destinations were delayed for Alas
#air.info<-airline.delays %>% group_by(Airline,ArrivalStatus) %>% mutate(sum(NumberofFlights))
#air.info

```