```r
install.packages("ggplot2")

install.packages("ggthemes")

install.packages("lubridate")

install.packages("dplyr")

install.packages("tidyr")

install.packages("DT")

install.packages("scales")

library(ggplot2)

library(ggthemes)

library(lubridate)

library(dplyr)

library(tidyr)

library(DT)

library(scales)

colors = c("#CC1011", "#665555", "#05a399", "#cfcaca", "#f5e840", "#0683c9", "#e075b0")

getwd()

setwd("C:/Users/DELL/Desktop/Assignment")

apr_data <- read.csv("uber-raw-data-apr14.csv")

may_data <- read.csv("uber-raw-data-may14.csv")

jun_data <- read.csv("uber-raw-data-jun14.csv")

jul_data <- read.csv("uber-raw-data-jul14.csv")

aug_data <- read.csv("uber-raw-data-aug14.csv")

sep_data <- read.csv("uber-raw-data-sep14.csv")

data_2014 <- rbind(apr_data,may_data, jun_data, jul_data, aug_data, sep_data)

data_2014$Date.Time <- as.POSIXct(data_2014$Date.Time, format = "%m/%d/%Y %H:%M:%S")

data_2014$Time <- format(as.POSIXct(data_2014$Date.Time, format = "%m/%d/%Y %H:%M:%S"),
format="%H:%M:%S")

data_2014$Date.Time <- ymd_hms(data_2014$Date.Time)

data_2014$day <- factor(day(data_2014$Date.Time))
```

```
data_2014$month <- factor(month(data_2014$Date.Time, label = TRUE))

data_2014$year <- factor(year(data_2014$Date.Time))

data_2014$dayofweek <- factor(wday(data_2014$Date.Time, label = TRUE))

data_2014$hour <- factor(hour(hms(data_2014$Time)))

data_2014$minute <- factor(minute(hms(data_2014$Time)))

data_2014$second <- factor(second(hms(data_2014$Time)))

hour_data <- data_2014 %>%

 group_by(hour) %>%

 dplyr::summarize(Total = n())

datatable(hour_data)
```

Show 10 ▼ entries

Search: _____

| | hour | Total |
|---|---|---|
| 11 | 10 | 141283 |
| 12 | 11 | 146929 |
| 13 | 12 | 151027 |

Showing 11 to 20 of 25 entries

Previous 1 2 3 Next
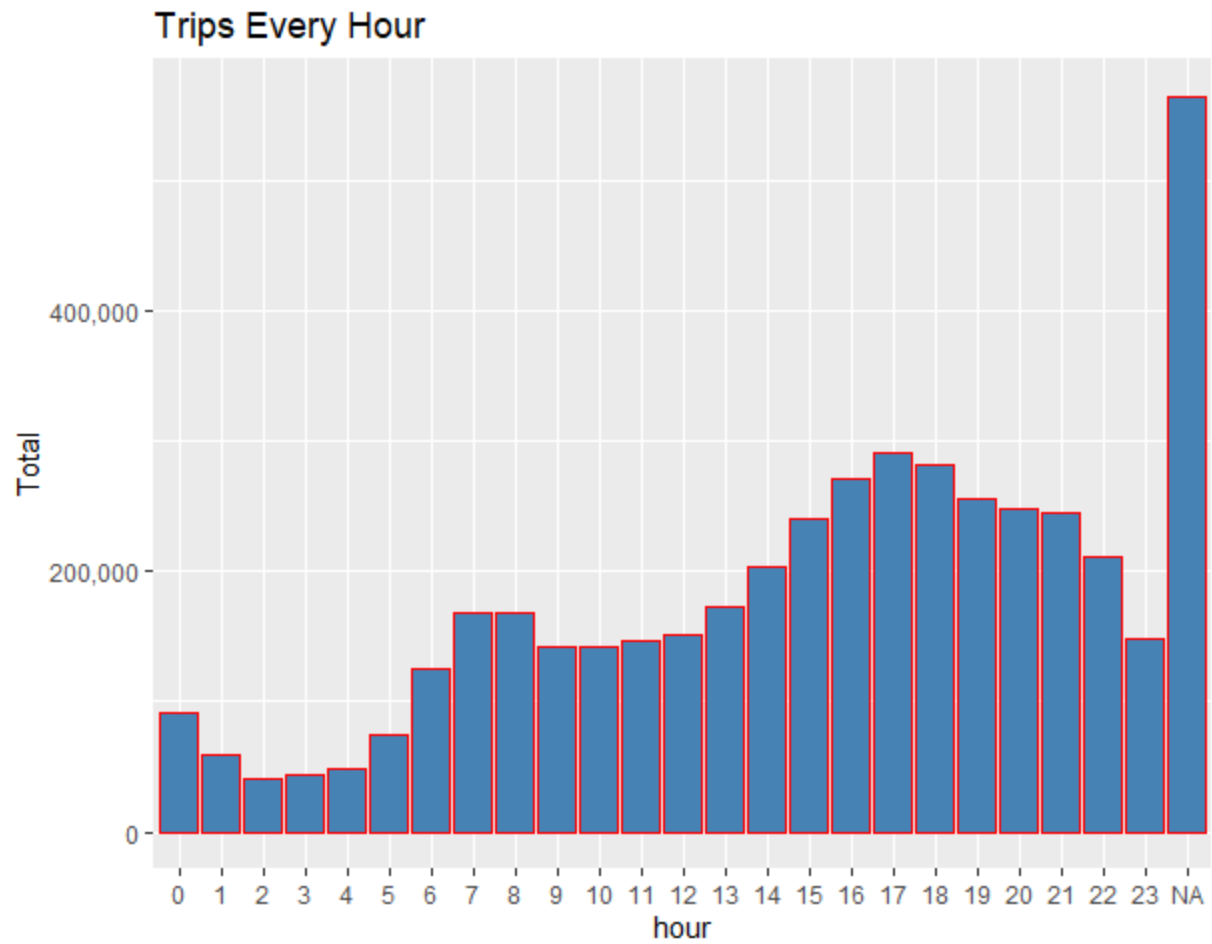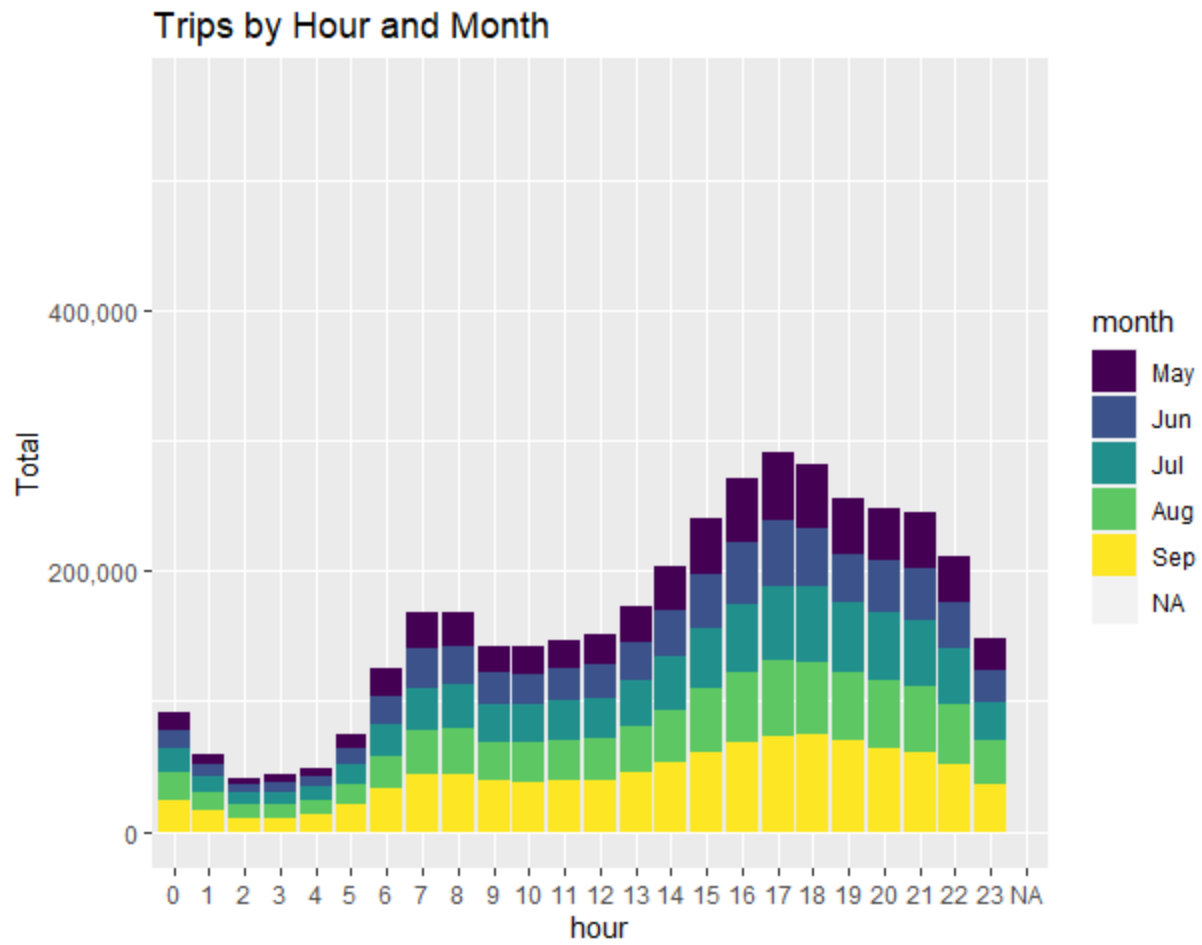
```
ggplot(hour_data, aes(hour, Total)) +

 geom_bar( stat = "identity", fill = "steelblue", color = "red") +

 ggtitle("Trips Every Hour") +

 theme(legend.position = "none") +

 scale_y_continuous(labels = comma)
```

## Trips Every Hour



```
month_hour <- data_2014 %>%
  group_by(month, hour) %>%
  dplyr::summarize(Total = n())
ggplot(month_hour, aes(hour, Total, fill = month)) +
  geom_bar( stat = "identity") +
  ggtitle("Trips by Hour and Month") +
  scale_y_continuous(labels = comma)
```

## Trips by Hour and Month



```
day_group <- data_2014 %>%

 group_by(day) %>%

 dplyr::summarize(Total = n())

datatable(day_group)
```

| day | | Total |
|-----|-----|-------|
| 11 | 11 | 128440 |
| 12 | 12 | 142436 |
| 13 | 13 | 144780 |

Showing 11 to 20 of 32 entries

```
ggplot(day_group, aes(day, Total)) +

 geom_bar( stat = "identity", fill = "steelblue") +

 ggtitle("Trips Every Day") +

 theme(legend.position = "none") +

 scale_y_continuous(labels = comma)
```

Trips Every Day