

Lab 11: Databases

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Lab report

Exercise 1

```
library(DBI)
library(RSQLite)
library(dbplyr)

con <- dbConnect(SQLite(), "nycflights13.sqlite")
```

Exercise 2

```
library(dbplyr)
flights_tbl <- tbl(con, "flights")
```

Exercise 3

```
flights_query <- flights_tbl %>%
  select(year, month, day, hour, dep_delay, origin)
```

Exercise 4

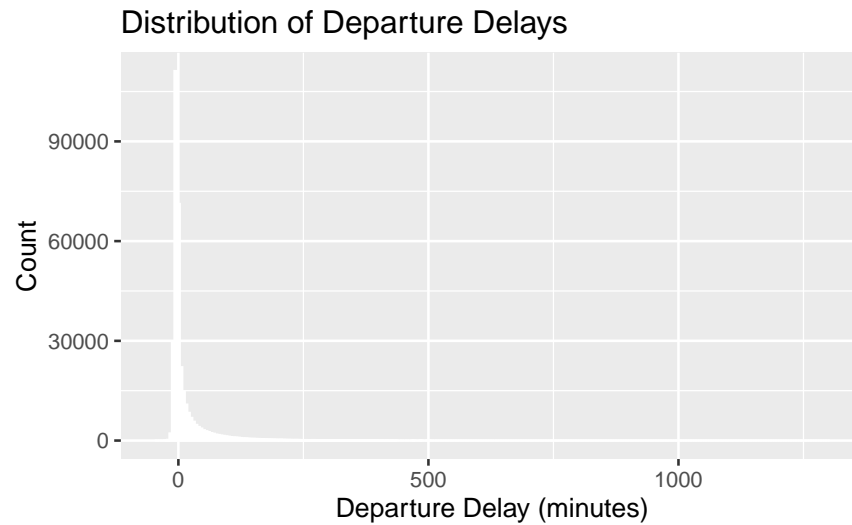
```
## <SQL>
## SELECT 'year', 'month', 'day', 'hour', 'dep_delay', 'origin'
## FROM 'flights'
```

Exercise 5

```
flights_df <- flights_query %>%  
  collect()
```

Exercise 6

```
## Warning: Removed 8255 rows containing non-finite outside the scale range  
## ('stat_bin()').
```



- The average is much higher than the median, meaning there are many very long delays that drive the average up. While most flights don't experience significant delays, some have very long delays.

Exercise 7

Exercise 8

Exercise 9

Exercise 10

Exercise 11

Exercise 12