Assignment 11

Complete the following steps:

1. Using the nyclfights13 library, open all of the data tables and turn them into a database. Make sure to include flights, airlines, airports, weather and planes.

   HINT: Simple – just run the r-chunk from the example, lines 35 – 60.

2. Create a data frame from a SQL pull from the database that consists only of flights that took off from JFK in May.

   HINT: You will need to send a query to the database. Selecting only flights from 'JFK' – don't forget the quotes!!!

   Try using the following request text:

   ```
   req_text<-"Select * from flights
     Where origin=='JFK' "
   ```

   Then execute the query ☺

3. Create a data frame from a SQL pull from the database that consists only of flights that took off on-time (a delay of less than 10 minutes) from Newark at temperatures of less than 40 degrees F.

   HINT: This request has 3 conditions (from 2 different databases!!) that must be met, thus we will need to connect each condition with an AND … plus … we will need to access two databases.

   We will include the join (of both databases) within the request ….

   Try:

   ```
   req_text<-"Select f.dep_delay, f.origin, w.temp
         FROM flights f
         JOIN weather w
         WHERE f.origin=w.origin AND f.year=w.year AND f.month=w.month AND f.day=w.day AND f.hour=w.hour AND f.origin= <what goes here?> AND f.dep_delay<10 AND w.temp<40
         "
   ```

4. Create data frame from a SQL pull from the database that consists of planes flown by United.

   Hint: since we have already likely created a flights data frame, we can filter all flights flown by United using the "filter(…)" function.