SQL Aggregation Lab

- 1. Download the 1994-census-summary.sql and 1994-census-summary.data files from the course website, and load the data into sqlite using the .read command. For example:
 - o sqlite> .read data/1994-census-summary.sql
- 2. Write SQL statements to answer the following questions:
 - What is the average age for each workclass? Expected output:
 - Federal gov,43.0
 - Local_gov,42.0
 - NA,41.0
 - Never worked,21.0
 - Private.37.0
 - (etc.)

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- What is average number of years of education by occupation? Expected output:
 - Adm clerical, 10.0
 - Armed Forces, 10.0
 - Craft_repair,9.0
 - Exec_managerial,11.0
 - Farming_fishing,9.0 (etc.)
- What is the average age by occupation, listed in order of average age? Expected output:
 - Armed_Forces,30.0
 - Handlers_cleaners,32.0
 - Other service,35.0
 - Adm clerical,37.0
 - Sales,37.0
 - · (etc.)

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- What is the average of years of education by both workclass and sex? Expected output:
 - Federal_gov,Female,11.0
 - Federal_gov,Male,11.0
 - Local_gov,Female,11.0
 - Local gov, Male, 11.0
 - NA, Female, 9.0
 - NA, Male, 9.0
 - (etc.)
- 3. Do the following steps related to null handling in the census data:
 - o edit 1994-census-summary.sql to remove the 'not null' constraint on attribute 'workclass'
 - reload the census data into SQLite

- change "NA" values of the attribute 'workclass' to null values, as follows:
 sqlite> update census set workclass=null where workclass="NA";
- Write an SQL query to count the number of rows in the census table.
- Write an SQL query to count the number of 'workclass' values.
- What is the difference between the two count values you just found?
- o Write an SQL query to count the number of rows in which workclass is null.