

Homework 2

CS157 A Spring 2020

Total Points: 15

Each SQL query is **1 point**

Part 1:

Load the '1994-census-summary.sql' data into SQLite (use **.read** 1994-census-summary.sql)

Write SQL to answer the following questions:

1. what 'relationship' values appear in the data?
2. what are the minimum and maximum number of years of education?
3. which native countries end with "a"?
4. which native countries do not have "a" anywhere in their name?
5. what is the average age of people who have never worked?
6. Show the workclass and education of people under 20?
7. Show the sex of people who are over 80 and have never married?
8. show the sex, age, and marital status for people in the armed forces?
9. show the marital status of people of age 50 with relationship 'Not_in_family'?
10. show the occupation of women under the age of 40 with a Doctorate degree?
11. show all columns for people under the age of 21 with a Masters degree?
12. show the age of females with either a bachelors or a masters degree?

Part 2:

Read the 'courses-ddl.sql' and 'courses-small.sql' files into SQLite. Write SQL to answer the following questions:

13. Show the names of all students who have taken course "CS-190", as well as the year in which they took the course?
14. For every course taught by an instructor, show the instructor's name and the course that is taught?
15. Do the same as in the previous question, but do not show duplicates and sort by instructor name?