

# Assignment #2 (cont.)

The web application provides the following functions with proper GUI;

1. Build the database with four tables by reading each line from the given CSV file and inserting it into the proper table.
2. **Query type 1:** List the pairs (countyName, averageScore) where averageScore is the average score of each county.
3. **Query type 2:** List the pairs (cityName, averageScore) where averageScore is the average score of each city.
4. **Query type 3:** List the pairs (professorName, studentName) where the student has the highest score in her/his county, the professor is the eldest in her/his county, and they live in the same county.

# Assignment #2 (cont.)

**5. Query type 4:** List the pairs (professorName, studentName) where the student has the highest score in her/his city, the professor is the eldest in her/his city, and they live in the same city.

**6. Query type 5:** List the pairs (studentName, cityName) where the ratio of COVID patients is in top 3 cities.

➤ We will measure the execution time of Query type 5 and give 50%, 30%, 20% of bonus over the assignment score (#1 and #2) to the fastest, second fastest, and third fastest submissions, respectively.