

STAT 3280 HW8

Fall 2021

Due by the end of Nov 15, eastern time. Submit your homework by sending it to our GTA, Ruizhong Miao (rm9dd@virginia.edu), with the subject ``STAT 3280-HW8: names", where the ``names" should be replaced by your last name(s) of the group. It's good practice to make SQL keywords uppercase to distinguish them from other parts of your query and try to segment by using new lines. Please do this to make it easier for the grader. Also remember to include a **semicolon** at the end of your query. This tells SQL where the end of your query is! **You should submit only your SQL code. No program running needed.**

Total points: 10.

1. [2 pts] Determine the best data type to use for each example below, e.g., state abbreviation = fixed-length character, char. If a number note as unsigned if appropriate.
 - a. An article from the New Yorker Magazine
 - b. Time of a runner finishing a multiday competition
 - c. Time elapsed between births of twins
 - d. Car Make
 - e. Date and time of homework submission
 - f. Longest throw from a Quarterback in feet
 - g. Whether someone likes beer or not
 - h. UVA id number (not computing id)
2. [2 pts] Based on the provided **department** table below, provide the SQL code to create a SQL table called **employees** that stores employee number (primary key), employee name, department, and salary information. Have the foreign key on the **employees** table reference the **departments** table based on the **department_id** field.

```
CREATE TABLE departments
( department_id INT,
  department_name VARCHAR(50),
  CONSTRAINT departments_pk PRIMARY KEY (department_id)
);
```

The following questions are based on the **suppliers** table shown below:

supplier_id	supplier_name	city	state
100	Microsoft	Redmond	Washington
200	Google	Mountain View	California
300	Oracle	Redwood City	California
400	Kimberly-Clark	Irving	Texas
500	Tyson Foods	Springdale	Arkansas

3. [2 pts] Provide the SQL code to create and fill in the table **suppliers** shown above.
4. [2 pts] Provide the SQL code to update the city to 'Boise' and the state to 'Idaho' for all records whose **supplier_name** are 'Microsoft'.

5. [2 pts] Based on the ***suppliers*** table, provide the SQL code to delete the supplier record whose state is 'California'.