CSCB20 WEEK 5 - 2017 TUTORIAL

1 Creating and Updating Tables

Read the description of creating a table here: http://www.mysqltutorial.org/mysql-create-table/

Pay particular attention to the **default** and **auto increment** commands.

CREATE TABLE table_name(column_name1 type1, column_name2 type2, ...);

Let's create a new table called accounts that contains a persons ID, name, address and phone.

And now let's insert a sample row. The command to insert values are:

INSERT INTO table_name VALUES (value₁, value₂, ..., value_n,);

OR

INSERT INTO table_name (col1, col2, ..., coln) VALUES (value₁, value₂,..., value_n,);

OR

INSERT INTO table_name SELECT QUERY

Try DROPing this table using the DROP table name command.

2 Insert

Read the section on INSERT:

http://www.mysqltutorial.org/mysql-insert-statement.aspx

Insert into the **student** table a new student who studies 'Music', has ID '99999', name 'Star' and 150 credits.

Now we can try inserting into the instructor table using an INSERT with SELECT statement. Insert into the table **instructor** all those students in the music department with at least 144 total credits. You may assume the initial salary for such a new instructor is \$18000.

3 Update

Again read the tutorial on UPDATE.

http://www.mysqltutorial.org/mysql-update-data.aspx

We can use UPDATE to give the instructors a 5% pay raise using the UPDATE command.

Increase the salary by 5% for all instructors whose salary is less than \$60,000.

Increase the salary by 5% for all instructors whose salary is less than or equal to \$60,000 and by 3% if the salary is greater than \$60000.

4 University Relations

Relations and their schemas:

classroom(building, room_number, capacity) department(dept_name, building, budget) course(course_id, title, dept_name, credits) instructor(ID, name, dept_name, salary) section(course_id, sec_id, semester, year, building, room_number, time_slot_id) teaches(ID, course_id, sec_id, semester, year) student(ID, name, dept_name, tot_cred) takes(ID, course_id, sec_id, semester, year, grade) advisor(s_JD, i_JD) time_slot(time_slot_id, day, start_time, end_time) prereq(course_id, prereq_id)