CSCD 327 Lab #6 (11 points)
Due: August 4, 2014

Include SQL statements in your submission (Don't need to include query results)

Section 1: Database Update. Use "*YourUserName_4*" for the following exercises.

1. Increase the salary of each instructor in the Comp. Sci. department by 10%.
2. Delete all courses that have never been offered (i.e., do not occur in the *section* relation).
3. Insert every student whose *tot_cred* attribute is greater than 100 as an instructor in the same department, with a salary of $10,000.
4. Delete all *takes* tuples corresponding to any section of any course with the word "database" as a part of the title; ignore case when matching the word with the title.
5. Update *Tot_Cred* in *student* relation. When you look at the *student* relation you will find that the *tot_cred* field provides incorrect information. Now you are going to update this field with the **real total credits** the students received. Note that if a student got an *F* or the grade is *null*, he/she got 0 credits for that course. Display the *student* table after the update.

Section 2: DDL with Constraints. Create a new database named "*YourUsername_Constraints*", and use it for the following exercises.

6. Modify the following SQL command so that the Rep_ID column is the PRIMARY KEY for the table and the default value of Y is assigned to the Comm column. (The Comm column indicates whether the sales representative earns commission.)

```
CREATE TABLE STORE_REPS (
(Rep_ID INT(5),
Last VARCHAR(15),
First VARCHAR(10),
Comm CHAR(1) );
```

7. Change the STORE_REPS table so that NULL values CANNOT be entered in the name columns (First and Last).

8. Create a table named BOOK_STORES to include the columns listed in the following chart:

Column Name	Datatype	Constraint Comments
Store_ID	INT(8)	PRIMARY KEY column
Name	VARCHAR(30)	Should be UNIQUE and NOT NULL
Contact	VARCHAR(20)	
Rep_ID	INT(5)	

9. Add a constraint to make sure the Rep_ID value entered in the BOOK_STORES table is a valid value contained In the STORE_REPS table.

10. Change the constraint created in the previous question so that associated rows of the BOOK_STORES table are deleted automatically if a row in the STORE_REPS table is deleted.

11. Create a table named REP_CONTRACTS containing the columns listed in the following chart. A composite PRIMARY KEY constraint including the Rep_ID, Store_ID, and Quarter columns should be assigned. In addition, FOREIGN KEY constraints should be assigned to both the Rep_ID and Store_ID columns.

Column Name	DataType
Store_ID	INT(8)
Name	INT(5)
Quarter	CHAR(3)
Rep_ID	INT(5)