CS 440 Assignment 2 Due Wed January 28, 2015

The tables that you loaded from the scripts have no constraints. We need to correct this oversight:

1. Alter the dept table to have the following deferrable (initially immediate) constraints:

    a. deptno is the primary key

    a. dname is unique and not null

2. Alter the emp table to have the following deferrable (initially immediate) constraints:

    a. empno is the primary key

    b. ename is unique and not null

    c. mgr references the empno attribute in the table emp

    d. deptno references the deptno attribute in the table dept

    e. the sal attribute value should lie in the interval 500 to 10000

3. Alter the table s to have the following deferrable (initially immediate) constraints:

    a. s# is the primary key

    b. sname is unique and not null

4. Alter the table p to have the following deferrable (initially immediate) constraints:

    a. p# is the primary key

    b. pname is unique and not null

5. Alter the table sp to have the following deferrable (initially immediate) constraints:

    a. the pair s# and p# is the primary key

    b. qty is either null or non-negative

c. s# references the s# attribute of the table s and p# references the p# attribute of thep table.

6. Create an index on the deptno attribute of emp

7. Two hiredate values in the emp table are incorrect; they are listed as 2013 whereas the correct hiredate was 2012. Identify the difficulty and correct it. You might want to use the add_months function with the prototype:

   add_months(date, #months)

   where the #months value can be either positive or negative.

   Commit your results.

8. List all indexes with table name and index name.

9. List all constraints with table name and constraint name.

Create a script to execute this assignment. The format of the script should be:

-- Your name
-- CS 440
-- Assignment 2
-- January 28, 2015

set echo on

-- Problem 1a
……

-- Problem 1b
…. . .

Run your script, spool your output and submit the spooled results.

Hint: start your script by dropping all constraints and indexes.