Due: Mon. Sep. 10, 2012 (Tentative)

Hands-on assignment

You will work in teams for this assignment. Each team has 3 members. Each member should participate in all aspects of the assignment.

You will create a few relations in a database, insert a few tuples in each relation, and write and execute some SQL queries.

Use SQL for all tasks: Table creation, inserting data, and querying. Put all commands and queries in one or more files, instead of typing them into DB systems.

Create the following tables:

STUDENTS = {id, name, dept}
COURSES = {cNo, title, credits}
TRANSCRIPTS = {id, cNo, grade}

Use appropriate types for the attributes. Declare appropriate keys for each table. Declare referential integrity (foreign key constraints) as appropriate.

Insert a few tuples into each table.

Write and execute the following SQL queries:

Q1. List all students (ids and names) in “Computer Science” department.
Q2. List all courses (cNos and titles) “F. Flintstone” has taken, and passed with a grade of “A”.
Q3. List students in “Computer Science” department, and for each student list the total credit-hours the student has taken (hence, the output table has three columns: id, name, total_credits).

Output: Each team should submit one output. Please make sure the names of all team members are listed on the output. Print all SQL statements for table creation and data insertion. Print your tables. Print the queries, and for each query, print the result.