

**Introduction to Database Design**  
**IS410/610, Spring 2017**  
**Team Project Part 4**  
**Due on May 2, 2017**

1. Attach a modified version of your relational tables from part 3 (Only have to show all the tables, their attributes, functional dependencies, and referential integrities). (3 pts)
2. Create commands for creating all your tables. You are recommended to: (8 pts)
  - a. Define primary keys, foreign keys, and other constraints, if applicable.
  - b. Create tables without foreign keys before those with foreign keys.
  - c. Name the script file for creating tables as **proj\_cre.sql**.
3. Create commands for inserting sample data into all your tables. (7 pts)
  - a. There should be at least 6 records for each table. If a table is supertype of N other tables, you should enter at least 6\*N records for the supertype table.
  - b. Name the script file for inserting data as **proj\_ins.sql**.
4. Make at least ten different sample queries. (7 pts)
  - a. Write SQL statements for each query.
  - b. Your SQL statements must include at least one example for each of these: UNION, INTERSECT, MINUS, aggregator operator, JOIN, and GROUP BY.
  - c. Create a view for any two of the above queries.
  - d. Name the script file used for queries **proj\_qeu.sql**.

**Requirements:**

All your SQL statements should be tested successfully in Oracle. Both SQL statements and their outputs on your sample data should be reported. You should submit both a soft copy and a hard copy for this deliverable. The two copies should be the same.

- The hard copy will be submitted in class.
- The soft copy will be submitted to the course blackboard website before the class starts. Please create and submit one zip file that contains all the above files and label the zip file with your group name.