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| sait_icon_wordmark_colour.png | **CPRG 250**  **Lab Practice for Midterm Exam** |

Create the SQL script for the following questions using the Ivy Covered Community College (ICCC) database on D2L. **Create a spool file that includes all of your SQL commands along with the results.** Submit the script AND spool file via Brightspace.

**Part 1 (3 points)**

1. **Prepare your database by executing the scripts attached with the database in the following order:**
   1. create\_iccc.sql
   2. constraints\_iccc.sql
   3. load\_iccc.sql
   4. updates\_iccc.sql

**Part 2 (7 points)**

1. **Add the following lines to your script:**

set echo on

set linesize 132

set pagesize 66

1. **Describe the structure of each table and explore its data using:**
   1. Describe table\_name;
   2. Select \* from table\_name;

**Part 3 (5 points)**

1. **How to join course table with faculty table to display course title, number of credits and faculty member name for all courses starts with CSYS.**

**Part 4 (10 points)**

1. **Show all the course titles which do have prerequisite, DESC.**

**Part 5 (10 points)**

1. **Show the average grade, formatted 2 decimal precision.**
2. **Show the sum of salaries in each unit which is greater than or equal 50000.**

**Part 6 (10 points)**

1. **Show all students whose grade is below the average grade. Include first name, last name, grade, and average grade.**

**Part 7 (8 points)**

1. **Generate a report for class capacity which has total capacity in the two semesters greater than or equal 75. The output should match what is shown below.**

