**ISM 6212 – Assignment 3**

**Structured Query Language (SQL) – Part 1**

**Single Table Queries**

**Due: See Canvas course site for due date**

**PART 1 – Single Table Queries (4pts each)**

**Query01:** Find the names (first and last), ID's, and number of credits of all math majors. The result should have four columns.

SELECT StuID, StuLast, StuFirst, StuCredits

FROM student

WHERE StuMajor = "Math"

**Query02:** Find all information about CSC faculty. The result should have four columns.

SELECT \* FROM FACULTY

WHERE FacDept = "CSC"

**Query03:** Find the course number of all courses in which students are enrolled. The result should have one column, and no course ID should appear more than once in that column.

SELECT CrsID

FROM Enroll

GROUP BY CrsID

**Query04:** Find all information about all students. The result should have five columns.

SELECT \* FROM STUDENT

**Query05:** Find the names and ID's of all faculty members, arranged in alphabetical order by name. The result should have two columns.

SELECT FacName, facID

FROM FACULTY

ORDER BY FacName

**Query06:** Find the names (first & last) and number of credits for all math majors who have more than 30 credits. The result should have three columns.

SELECT StuFirst, StuLast, StuCredits

FROM STUDENT

WHERE StuMajor = "math" AND StuCredits > 30

**Query07:** Find the Course ID’s of courses in which students earned a grade of A. The result should have one column and no Course ID should appear more than once.

SELECT CrsID

FROM ENROLL

WHERE Grade = "A"

GROUP BY CrsID

**Query08:** Find the faculty ID and number of courses taught by each faculty member. The result should have two columns. No faculty ID should appear more than once and the label for the second column should be **NumberOfCoursesTaught**.

SELECT FacID, COUNT(CrsID) as NumberOfCoursesTaught

FROM COURSE

GROUP BY FacID

**Query09:** Find all information for all MTH courses. The result should have four columns.

SELECT \* FROM COURSE

WHERE CrsID IN ("MTH1010", "MTH1030")

**Query10:** Find the total number of students enrolled in CSC2010. The result should be two columns and second column label should be **NumberOfStudents**.

SELECT CrsID, COUNT(StuID) as NumberOfStudents

FROM ENROLL

WHERE CrsID = "CSC2010"

GROUP BY CrsID