**SQL Commands/Outputs Query Questions**

Query 1: List the name and associated course IDs for all students in year 1.

Input: SELECT STUDENT.firstname, STUDENT.lastname,

ENROLLED.courseid

FROM STUDENT inner join enrolled on student.studentid = enrolled.studentid;

Output: Courtney Casperson CIS001-2

Garrett Casperson Mat666-7

Garrett Hasch His001-1

Marcus Catt Acc982-2

Nathaniel Been CIS889-9

Query 2: List of all course IDs taken or registered for by students with id “801100100” and “801200200”. Note: You will need to make sure that there are several course records present for these two students.

Input: SELECT courseid, studentid

FROM enrolled

WHERE studentid = '801100100' OR studentid =

'801200200';

Output: none we used a different studentID format as shown below.

SELECT courseid, studentid

FROM enrolled

WHERE studentid = 'marc4444' OR studentid = 'garr7777';

Acc982-2 marc4444

His001-1 garr7777

Query 3: List the names of all instructors teaching year 1.

Input: SELECT INSTRUCTOR.firstname, INSTRUCTOR.lastname

FROM INSTRUCTOR inner join courses on

instructor.instructorid = courses.instructorid

WHERE courses.course\_year = 1;

Output: firstname lastname

Michele Lamb

Query 4: List the course numbers that have tutorials. Only list each course 1 time.

Input: SELECT DISTINCT(courses.courseid)

FROM courses inner join lab\_sessions on

courses.courseid = lab\_sessions.courseid;

Output: courseid

Acc982-2

CIS001-2

CIS889-9

His001-1

Mat666-7

Query 5: List the course number and description of all courses that have more than 2 lab sections, no course number can repeat.

Input: Select Courses.CourseID, Courses.Description

From Courses

Left Outer Join (

Select CourseID, Count(\*) As Count

From Lab\_Sessions

Group By CourseID

) Lab\_Count On Lab\_Count.CourseID

= Courses.CourseID

Where Lab\_Count.Count > 2;

Output: Mat666-7 introduction to calculus, this is a hard

course

Query 6: List the student name, ID, course name, section number, and grade of all students taking a specific section of a specific course. Sort by ascending student number (you pick the course and sections from the data you enter).

Input: SELECT STUDENT.firstname, STUDENT.lastname,

STUDENT.grade\_year, STUDENT.studentid, courses.courseid, courses.title

FROM STUDENT

inner join enrolled on STUDENT.studentid = enrolled.studentid, courses

inner join enrolled on courses.courseid = enrolled.courseid

WHERE courses.courseid = 'Mat666-7'

ORDER BY student.studentid ASC;

Output: Courtney Casperson Freshman Cour3546 Mat666-7 calculus

Garrett Casperson Freshman garr6666 Mat666-7 calculus

Garrett Hasch Senior garr7777 Mat666-7 calculus

Marcus Catt Sophomore marc4444 Mat666-7 calculus

Nathaniel Been Senior nath3333 Mat666-7 calculus

Query 7: For a specific classroom (you pick), list the instructor ID, and section number of all sections taught in that room.

Input: SELECT instructor.firstname, instructor.lastname,

courses.courseid, courses.title

FROM courses inner join instructor on

courses.instructorid = instructor.instructorid

WHERE courses.classroom = '99';

Output: John Doe Mat666-7 calculus

Jeff Lutz CIS001-2 web design