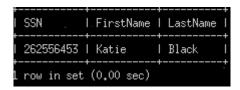
1) Retrieve information (SSN, first name and last name) about students who take the course 'Database Management Systems'.

SELECT Student.SSN,FirstName,LastName FROM Student,Enrolls,Course WHERE Student.SSN = Enrolls.SSN AND Enrolls.CourseNo = Course.CourseNo AND CourseName = 'Database Management Systems';



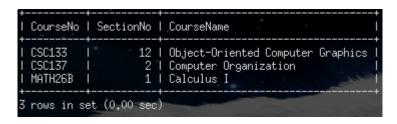
2) Retrieve the courses (List course name and number of sections) that have more than 2 sections.

SELECT Course.CourseName AS 'Course',COUNT(DISTINCT Section.SectionNo)
AS '# of Sections'
FROM Course,Section
WHERE Course.CourseNo = Section.CourseNo
GROUP BY Course.CourseNo
HAVING COUNT(DISTINCT Section.SectionNo) > 2;



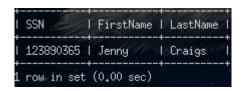
3) List each course number, course name and section number which have 3 or more students in the section.

SELECT Enrolls.CourseNo,Enrolls.SectionNo,Course.CourseName FROM Enrolls,Course
WHERE Enrolls.CourseNo = Course.CourseNo
GROUP BY Enrolls.CourseNo,Enrolls.SectionNo
HAVING COUNT(DISTINCT Enrolls.SSN) >= 3;



4) Retrieve the information (SSN, first name, and last name) of students who got Grade 'A' in at least 3 exams.

SELECT Student.SSN,Student.FirstName,Student.LastName FROM Student INNER JOIN Takes ON Student.SSN = Takes.SSN GROUP BY Student.SSN,Student.FirstName,Student.LastName,Takes.Result HAVING COUNT(Takes.Result) >= 3 AND Takes.Result = 'A' ORDER BY Student.SSN;



5) Obtain information (exam number, exam date, course number and section number) about exams taking place in building 'RVR'. Along with that get the room's capacity and room number.

SELECT Exam.ExamNo, Exam.E_Date, Exam.CourseNo, Exam.SectionNo, ClassRoom.Capacity, ClassRoom.RoomNo

FROM (SELECT *

FROM ConductedIn

WHERE ConductedIn.Building = 'RVR'

) AS rvr

INNER JOIN Exam ON rvr.CourseNo = Exam.CourseNo AND rvr.SectionNo = Exam.SectionNo

AND rvr.ExamNo = Exam.ExamNo

INNER JOIN ClassRoom ON rvr.RoomNo = ClassRoom.RoomNo AND rvr.Building = ClassRoom.Building;

l ExamNo	E_Date	l CourseNo	SectionNo	Capacity	l RoomNo I
i 15	2017-09-03 2017-12-03 2017-04-09	PHIL4	1 1 8	25	
3 rows in set (0.00 sec)					

6) Retrieve information (SSN, first name and last name) about students who are enrolled in both the course 'CSC133' and 'CSC137'. 'CSC133' and 'CSC137' are both course numbers.

SELECT Student.SSN, Student.FirstName, Student.LastName

FROM Student, Enrolls

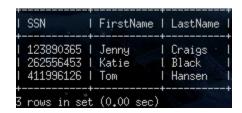
WHERE Student.SSN IN (SELECT Student.SSN

FROM Student, Enrolls

WHERE Student.SSN = Enrolls.SSN AND Enrolls.CourseNo =

'CSC133')

AND Student.SSN = Enrolls.SSN AND Enrolls.CourseNo = 'CSC137';



7) Get the information (SSN, first name and last name) about students who take the course 'Data structure and algorithms'. Also get the section number in which they have enrolled in the course, as well as the instructor of the section.

SELECT Student.SSN, Student.FirstName, Student.LastName,

Section.SectionNo, Section.Instructor

FROM Student, Enrolls, Course, Section

WHERE Student.SSN = Enrolls.SSN AND Enrolls.CourseNo = Course.CourseNo AND Enrolls.CourseNo = Section.CourseNo AND Enrolls.SectionNo = Section.SectionNo

AND Course.CourseName = 'Data Structure and Algorithms';

