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CSC 134-01

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Homework No 2: 5_output.pdf

QUERY 1

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

Management Systems'

```
SELECTSSN, FirstName, LastName
FROM STUDENT
WHERE SSN IN(
SELECTSSN
FROM FROM
```

FROM ENROLLS
WHERE CourseNo IN(
SELECTCourseNo

FROM COURSE

WHERE CourseName = "Database

Management Systems");

QUERY 2

Courses with more than 2 sections (CourseName, Num)

```
SELECTCourseName, COUNT(*)

FROM COURSE, SECTION

WHERE COURSE.CourseNo = SECTION.CourseNo

GROUP BY SECTION.CourseNo

HAVING COUNT(*);
```

QUERY 3

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

```
SELECTCourseNo, CourseName, SectionNo, COUNT(*)

FROM ((SECTION NATURAL JOIN ENROLLS) NATURAL JOIN COURSE)

GROUP BY CourseNo, CourseName, SectionNo

HAVINGCOUNT(SSN) >=3;
```

```
QUERY 3
+-----+
| CourseNo | CourseName | SectionNo |
+----+
| CSC130 | Data Structures and Algorithms | 01 |
+----+
1 row in set (0.00 sec)
```

QUERY 4

SSN, FirstName, LastName of students with at least 3 A grades from Exams.

```
SELECTSSN, FirstName, LastName, COUNT(SSN)
FROM (STUDENT NATURAL JOIN TAKES)
WHERE Result = 'A'
GROUP BY SSN, FirstName, LastName
HAVINGCOUNT(SSN) >=3;
```

OUERY 5

Exam Number, Exam Date, Course Number, Section Number for Exams in building RVR + Capacity

```
SELECTExamNo, E_Date, CourseNo, SectionNo, Capacity

FROM ((EXAM NATURAL JOIN CONDUCTEDIN) NATURAL JOIN CLASSROOM)

WHERE Building = 'RVR'

GROUP BY ExamNo, E Dtea, CourseNo, SectionNo;
```

```
QUERY 5
 ExamNo | E Date
                      | CourseNo | SectionNo
 Exam 01 | 2016/11/01 | CSC130
                                 I 01
 Exam 01 | 2016/11/02 | CSC130
                                   02
 Exam 01 | 2016/11/03 | CSC130
 Exam 02 | 2016/10/04 | CSC133
                                 01
 Exam 02 | 2016/10/05 | CSC133
                                 02
 Exam_02 | 2016/10/06 | CSC133
                                 03
 Exam_03 | 2016/09/07 |
                        CSC134
 Exam 03 | 2016/09/08
                        CSC134
                        CSC134
 Exam 03 | 2016/09/09 |
                                 03
 Exam 04 | 2016/08/10 | CSC137
                                 01
 Exam 04 | 2016/08/11 | CSC137
 Exam 04 | 2016/08/12 | CSC137
                                 03
12 rows in set (0.00 sec)
```

QUERY 6

SSN, FirstName, LastName of Students enrolled in both CSC133 and CSC137

```
SELECTSSN, FirstName, LastName

FROM (Student NATURAL JOIN (Section NATURAL JOIN Enrolls))

WHERE CourseNo = 'CSC137' AND SSN IN (

SELECTSSN

FROM (Student NATURAL JOIN (Section NATURAL JOIN Enrolls))

WHERE CourseNo = 'CSC133');
```

QUERY 7

SSN, FirstName, LastName, SectionNo, Instructor for Data Structure and Analysis

```
SELECTSSN, FirstName, LastName, SectionNo, Instructor

FROM (COURSE NATURAL JOIN (SECTION NATURAL JOIN (STUDENT NATURAL JOIN ENROLLS)))

WHERE CourseName = 'Data Structures and Algorithms'

GROUP BY SSN, FirstName, LastName, SectionNo, Instructor;
```

```
| FirstName | LastName | SectionNo | Instructor
010578934 | Andrew
                                             | Dale Fletter
                      | Peklar
                                             | Dale Fletter
020563849 | Megan
                        Fox
                                 01
030674531 | Eric
                                 02
                                               Roger Williams
                        Peck
040585736 | Mike
                                               Dale Fletter
                        Tyson
050545975 | Hellen
                                 01
                                               Dale Fletter
                        Keller
rows in set (0.00 sec)
```