1] select deptName, count(\*) from student group by deptName

## Dumping data for table student

|  |  |
| --- | --- |
| Civil | 1 |
| Comp | 2 |
| Electrical | 1 |

2] SELECT instructor.name, count(\*) from instructor, teaches where instructor.id = teaches.instructorID group by instructor.id

## Dumping data for table instructor

|  |  |
| --- | --- |
| aaa | 1 |
| bbb | 1 |
| ccc | 1 |
| ddd | 1 |

3] select course.title, count(\*) from takes, course where course.courseID = takes.courseID group by course.courseID

## Dumping data for table course

|  |  |
| --- | --- |
| DBMPQ | 1 |
| OS | 1 |
| Mechanics | 1 |
| Signals and Systems | 1 |

4] select name, totalCredits from student group by student.name

## Dumping data for table student

|  |  |
| --- | --- |
| Alice | 4 |
| Judy | 4 |
| Mary | 3 |
| Sam | 4 |

5] select deptName, max(credits) from course

## Dumping data for table course

|  |  |
| --- | --- |
| Comp | 4 |

6] select course.title, instructor.name, instructor.deptName, instructor.salary from course, instructor, teaches where course.deptName = "Comp" and teaches.instructorID = instructor.id and course.courseID = teaches.courseID

## Dumping data for table course

|  |  |  |  |
| --- | --- | --- | --- |
| DBMPQ | aaa | Comp | 100000 |
| OS | bbb | Comp | 50000 |

7] select student.name, student.totalCredits from student, takes, course where course.courseID = takes.courseID and student.id = takes.studentID and course.deptName = "Civil"

## Dumping data for table student

|  |  |
| --- | --- |
| Mary | 3 |

8] select deptName, count(\*) from course group by deptName

## Dumping data for table course

|  |  |
| --- | --- |
| Civil | 1 |
| Comp | 2 |
| Electrical | 1 |

**Conclusion:**

SQL Groupings was studied and the queries were implemented successfully.