1. SELECT Department\_name, COUNT(\*) as Number\_Of\_Student FROM student GROUP BY department\_name

**Database university1**

**Table structure for table student**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| ***student\_id*** | int(10) | No |  |
| student\_name | varchar(25) | Yes | NULL |
| department\_name | varchar(25) | Yes | NULL |
| total\_credits | int(10) | Yes | NULL |
| birthdate | date | Yes | NULL |

**Dumping data for table student**

|  |  |
| --- | --- |
| civil | 1 |
| comp | 2 |
| electronics | 1 |

1. SELECT instructor.instructor\_name,count(\*) as Number\_Of\_Course\_Teaching from instructor,teaches where instructor.instructor\_id=teaches.instructor\_id GROUP by teaches.instructor\_id;

**Database university1**

**Table structure for table instructor**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| ***instructor\_id*** | int(10) | No |  |
| instructor\_name | varchar(25) | Yes | NULL |
| department\_name | varchar(25) | Yes | NULL |
| salary | mediumtext | Yes | NULL |

**Dumping data for table instructor**

|  |  |
| --- | --- |
| aaa | 2 |
| bbb | 2 |
| ccc | 2 |
| ddd | 1 |

1. SELECT course.title ,count(\*) as Number\_Of\_Sudent\_Registered from takes,course WHERE course.course\_id=takes.course\_id GROUP by course.course\_id

**Database university1**

**Table structure for table course**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| ***course\_id*** | int(10) | No |  |
| title | varchar(25) | Yes | NULL |
| department\_name | varchar(25) | Yes | NULL |
| credits | int(10) | Yes | NULL |

**Dumping data for table course**

|  |  |
| --- | --- |
| dbms | 2 |
| os | 2 |
| mechanics | 1 |
| foundation Engineering | 1 |
| signals and system | 1 |

1. SELECT student\_name, max(total\_credits) AS total\_credits\_taken FROM student GROUP BY student\_id

Database university1

Table structure for table student

|  |  |  |  |
| --- | --- | --- | --- |
| Column | **Type** | **Null** | **Default** |
| ***student\_id*** | int(10) | No |  |
| student\_name | varchar(25) | Yes | NULL |
| department\_name | varchar(25) | Yes | NULL |
| total\_credits | int(10) | Yes | NULL |
| birthdate | date | Yes | NULL |

Dumping data for table student

|  |  |
| --- | --- |
| sam | 8 |
| mary | 7 |
| judit | 4 |
| Elis | 4 |

1. SELECT title,max(credits) as Max\_No\_Of\_Credits from course GROUP by title Database university1

Table structure for table course

|  |  |  |  |
| --- | --- | --- | --- |
| Column | **Type** | **Null** | **Default** |
| ***course\_id*** | int(10) | No |  |
| title | varchar(25) | Yes | NULL |
| department\_name | varchar(25) | Yes | NULL |
| credits | int(10) | Yes | NULL |

Dumping data for table course

|  |  |
| --- | --- |
| dbms | 4 |
| foundation Engineering | 4 |
| mechanics | 3 |
| os | 4 |
| signals and system | 4 |

1. SELECT instructor\_name,department\_name,salary from instructor where department\_name="comp" GROUP by instructor\_id

Database university1

Table structure for table instructor

|  |  |  |  |
| --- | --- | --- | --- |
| Column | Type | Null | Default |
| *instructor\_id* | int(10) | No |  |
| instructor\_name | varchar(25) | Yes | NULL |
| department\_name | varchar(25) | Yes | NULL |
| salary | mediumtext | Yes | NULL |

Dumping data for table instructor

|  |  |  |
| --- | --- | --- |
| aaa | comp | 100000 |
| bbb | comp | 50000 |

1. SELECT c.title AS course\_title, s.student\_name, SUM(s.total\_credits) AS total\_credits FROM course c JOIN takes t ON c.course\_id = t.course\_id JOIN student s ON t.student\_id = s.student\_id WHERE c.department\_name = 'Civil' GROUP BY c.title

**Database university1**

**Dumping data for table c**

|  |  |  |
| --- | --- | --- |
| foundation Engineering | mary | 7 |
| mechanics | mary | 7 |

1. SELECT department\_name, count(\*) as number\_of\_courses from course GROUP by department\_name

**Database university1**

**Table structure for table course**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| *course\_id* | int(10) | No |  |
| title | varchar(25) | Yes | NULL |
| department\_name | varchar(25) | Yes | NULL |
| credits | int(10) | Yes | NULL |

Dumping data for table course

|  |  |
| --- | --- |
| civil | 2 |
| comp | 2 |
| electronics | 1 |