1. select name

from instructor

where dept\_name = 'Biology';

+-------+

| name |

+-------+

| Crick |

+-------+

2. select title

from course

where dept\_name = 'Comp. Sci.' and credits = 3;

+--------------------------+

| title |

+--------------------------+

| Robotics |

| Image Processing |

| Database System Concepts |

+--------------------------+

3 rows in set (0.00 sec)

3.select course\_id,title

from takes natural join course

where ID = 76543;

+-----------+----------------------------+

| course\_id | title |

+-----------+----------------------------+

| CS-101 | Intro. to Computer Science |

| CS-319 | Image Processing |

+-----------+----------------------------+

4. select sum(credits)

from takes natural join course

where ID=76543;

+--------------+

| sum(credits) |

+--------------+

| 7 |

+--------------+

5. select ID,sum(credits)

from takes natural join course

where ID=76543;

+-------+--------------+

| ID | sum(credits) |

+-------+--------------+

| 76543 | 7 |

+-------+--------------+

6. select ID,sum(credits)

from takes natural join course

group by ID;

+-------+--------------+

| ID | sum(credits) |

+-------+--------------+

| 00128 | 7 |

| 12345 | 14 |

| 19991 | 3 |

| 23121 | 3 |

| 44553 | 4 |

| 45678 | 11 |

| 54321 | 8 |

| 55739 | 3 |

| 76543 | 7 |

| 76653 | 3 |

| 98765 | 7 |

| 98988 | 8 |

+-------+--------------+

7.select distinct name

from takes natural join course,student

where course.dept\_name='Comp. Sci.' and takes.ID=student.ID;

+----------+

| name |

+----------+

| Zhang |

| Shankar |

| Levy |

| Williams |

| Brown |

| Bourikas |

+----------+

8.select ID

from instructor

where ID not in (select ID from teaches);

+-------+

| ID |

+-------+

| 76543 |

| 58583 |

| 33456 |

+-------+

9. select ID,name

from instructor

where ID not in (select ID from teaches);

+-------+-----------+

| ID | name |

+-------+-----------+

| 33456 | Gold |

| 58583 | Califieri |

| 76543 | Singh |

+-------+-----------+

2. create database movies;

create table actors( AID numeric(4),name varchar(10) , primary key( AID));

create table movie( MID numeric(4),title varchar(20) , primary key( MID));

create table actor\_role( MID numeric(4), AID numeric(4), rolename varchar(10), primary key(MID,AID), foreign key (AID) references actors(AID), foreign key (MID) references movie(MID));