Course(cid,cname,duration,capacity,rid,fid)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| cid | Cname | Duration | Capacity | rid | fid |
| 101 | DAC | 400 | 250 | 1 |  |
| 102 | DBDA | 350 | 60 | 2 | 100 |
| 103 | DTISS | 300 | 60 |  | 101 |
| 104 | DAI | 300 | 60 |  |  |

Faculty(facid, fname,sp.skill)

|  |  |  |
| --- | --- | --- |
| Facid | Fname | Spskill |
| 100 | Rajashree | C++ |
| 101 | Shrilata | Java |
| 102 | Vaishali | Database |
| 103 | Mahima | Java |

Room(roomid,rname,rloc)

|  |  |  |
| --- | --- | --- |
| Roomid | Rname | rloc |
| 1 | Lotus | 1st floor |
| 2 | Jasmin | 1st fllor |
| 3 | Mogara | 2 nd floor |

1. To display cid, cname,faculty name,spskill

|  |  |
| --- | --- |
| Select cid,cname,fname,spskill  From course c inner join faculty f  On c.fid=f.facid | Select cid,cname,fname,spskill  From course c , faculty f  where c.fid=f.facid |

1. To display cid,cname,rommid,room name

|  |  |
| --- | --- |
| Select cid,cname,roomid,rname  From course c , room r  Where c.rid=r.roomid | Select cid,cname,roomid,rname  From course c inner join room r  on c.rid=r.roomid |

1. To display cid, cname, faculty name, spskill for all faculties with spskill Java

|  |  |
| --- | --- |
| Select cid,cname,fname,spskill  From corse c inner join faculty f  On c.fid=f.facid  Where spskill=’java’ | Select cid,cname,fname,spskill  From corse c , faculty f  Where c.fid=f.facid  And spskill=’java’ |

1. To display cid,cname,roomid,room name for all room which are at 1st floor

|  |  |
| --- | --- |
| Select cid,cname,roomid,rname  From course c inner join room r  On c.rid=r.roomid  Where rloc=’1st floor’ | Select cid,cname,roomid,rname  From course c ,room r  Where c.rid=r.roomid and  rloc=’1st floor’ |

1. To display time table( cid, cname,fname,room name,room no)

|  |  |
| --- | --- |
| Select cid,cname,fname,rname,roomid  From course c inner join faculty f on c.fid=f.facid inner join room r on c.rid=r.roomid | Select cid,cname,fname,rname,roomid  From course c , faculty f , room r  Where c.fid=f.facid and c.rid=r.roomid |

1. Display all rooms which are available to assign to a course

|  |  |
| --- | --- |
| Select roomrid,rname  From room r left join course c  On c.rid=r.roomid  Where c.rid is null | Select \*  From room r  Where not exists  (select cid,cname  From course c  Where c.rid=r.roomid) |

1. Display all faculties which are not assigned to any course

|  |  |
| --- | --- |
| Select facid,fname  From faculty f left join course c  On c.fid = f.facid  Where c.cid is null | Select \*  From faculty f  Where not exists  (select \* from course c where c.fid=f.facid) |

1. Display all rooms which are available to assign to a course, also display all faculties which are not assigned to any course

|  |  |
| --- | --- |
| Select roomid,rname,null fid,null fname  Froom room r left join course c on r.rooid=c.rid  Where c.cid is null  Union  Select null,null,fid, fname  from faculty f left join course c on c.fid =f.facid  Where c.cid is null | Select roomid,rname,null fid,null fname From room r  Where roomid not in (select rid  From course)  Union  Select null,null,fid, fname  From faculty f  Where facid not in (select fid  From course)  Or  Select roomid,rname,null fid,null fname  From room r  Where not exists (select rid  From course c  Where c.rid=r.rid)  Union  Select null,null,fid, fname  From faculty f  Where not exists (select \*  From course c  Where c.fid=f.facid) |

1. Display all rooms which are available to assign to a course also display rooms which are assigned to the course, display course name also

|  |
| --- |
| Select roomid,rname,cid,cname from room r left join course c  On r.roomid=c.rid |

1. Display all cname , faculties which are available to assign to a course also display faculties which are assigned to the course

|  |
| --- |
| Select cid,cname,fid,fname  From faculty f left join course c  On f.facid=c.fid |

|  |  |
| --- | --- |
| Select cid,cname,f.facid,f.fname  From course c,faculty f  Where c.fid=f.facid | Select cid,cname,f.facid,f.fname  From course c inner join faculty f  on c.fid=f.facid |

1. To display cid, cname,room name and roomlocation

|  |  |
| --- | --- |
| Select cid,cname r.rname,r.rloc  From course c, room r  Where c.rid=r.roomid | Select cid,cname r.rname,r.rloc  From course c inner join room r  on c.rid=r.roomid |

1. To display cid,cname,fname,room name,room loc

|  |  |
| --- | --- |
| Select cid,cname,fname,rname,rloc from course c, faculty f,room r  Where c.fid=f.facid and c.rid=r.roomid; | Select cid,cname,fname,rname,rloc from course c inner join faculty f on c.fid=f.facid inner join room r  on c.rid=r.roomid; |

-----to display all employees who have not assigned to any project

select empno,ename,e.deptno

from emp e

on e.ename is null;