Part b 4

create table student\_profile(

roll\_no varchar(4) primary key,

sname varchar(20) not null,

class varchar(20) not null,

ECCC varchar(20) not null);

insert into student\_profile values('s102','Vignesh','1BCA','Rovers');

1 row(s) inserted.

select \* from student\_profile;

|  |  |  |  |
| --- | --- | --- | --- |
| **ROLL\_NO** | **SNAME** | **CLASS** | **ECCC** |
| s101 | Nidhi | 1BCA | sports |
| s102 | Vignesh | 1BCA | Rovers |
| s103 | Vijay | 2BCA | NSS |
| s104 | Sultan | 3BCA | NSS |
| s105 | Ravija | 2BCA | Sports |

create table Marks\_report(

roll\_no varchar(4),

internal\_test number(1)check(internal\_test in(1,2)),

mark1 number(3),

mark2 number(3),

mark3 number(3),

ECCmark number(3),

constraints mark check ((mark1 between -1 and 100)and (mark2 between -1 and 100)and(mark3 between -1 and 100)),

constraints pk\_mr primary key (roll\_no ,internal\_test),

foreign key(roll\_no)references student\_profile(roll\_no));

insert into Marks\_report values('s101',1,75,80,90,87);

1 row(s) inserted.

select \* from Marks\_report;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ROLL\_NO** | **INTERNAL\_TEST** | **MARK1** | **MARK2** | **MARK3** | **ECCMARK** |
| s101 | 1 | 75 | 80 | 90 | 87 |
| s101 | 2 | 89 | 90 | 90 | 97 |
| s102 | 1 | 90 | 85 | 96 | 97 |
| s102 | 2 | 99 | 94 | 97 | 98 |
| s103 | 1 | 30 | 32 | 32 | 27 |
| s103 | 2 | 49 | 56 | 57 | 78 |
| s104 | 1 | 76 | 98 | 65 | 46 |
| s104 | 2 | 29 | 26 | 32 | 34 |
| s105 | 1 | 78 | 88 | 75 | 66 |
| s105 | 2 | 89 | 67 | 87 | 84 |

1)

select class,count(\*)from student\_profile s,marks\_report m where s.roll\_no=m.roll\_no and (mark1<35 or mark2<35 or mark3<35) group by class;

|  |  |
| --- | --- |
| **CLASS** | **COUNT(\*)** |
| 2BCA | 1 |
| 3BCA | 1 |

2)

select student\_profile.roll\_no,sname,class,internal\_test,ECCC,mark1,mark2,mark3,ECCmark from student\_profile,marks\_report where student\_profile.roll\_no=marks\_report.roll\_no and ((mark1+mark2+mark3)/3)>=70 and class='1BCA';

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ROLL\_NO** | **SNAME** | **CLASS** | **INTERNAL\_TEST** | **ECCC** | **MARK1** | **MARK2** | **MARK3** | **ECCMARK** |
| s101 | Nidhi | 1BCA | 1 | sports | 75 | 80 | 90 | 87 |
| s101 | Nidhi | 1BCA | 2 | sports | 89 | 90 | 90 | 97 |
| s102 | Vignesh | 1BCA | 1 | Rovers | 90 | 85 | 96 | 97 |
| s102 | Vignesh | 1BCA | 2 | Rovers | 99 | 94 | 97 | 98 |

3)

select class,max(mark1+mark2+mark3)from student\_profile,marks\_report where student\_profile.roll\_no=marks\_report.roll\_no and internal\_test=2 group by class;

|  |  |
| --- | --- |
| **CLASS** | **MAX(MARK1+MARK2+MARK3)** |
| 2BCA | 243 |
| 3BCA | 87 |
| 1BCA | 290 |

4)

select student\_profile.roll\_no,sname,class from student\_profile,marks\_report where student\_profile.roll\_no=marks\_report.roll\_no and (mark1<35 and mark2<35 and mark3<35) and internal\_test=1

union

select student\_profile.roll\_no,sname,class from student\_profile,marks\_report where student\_profile.roll\_no=marks\_report.roll\_no and (mark1<35 or mark2<35 or mark3<35) and internal\_test=2;

|  |  |  |
| --- | --- | --- |
| **ROLL\_NO** | **SNAME** | **CLASS** |
| s103 | Vijay | 2BCA |
| s104 | Sultan | 3BCA |