Movella

SQL:

Table Name: Employee

Emp_Id	Name	Department	Grade	Salary	Gender
1	Robert	Computer Science	100	100000	M
2	Ram	Information Technology	101	134000	M
3	Alex	Computer Science	200	123456	M
4	Radha	Information Technology	201	23456	F
5	Santhi	Civil	300	234567	F
6	Madhavi	BioTech	301	234567	F

Student:

Student_Id	Class_Teacher_Employee_Id	Subject1	Subject2	Subject3
1	1	P	P	F
2	1	P	F	P
3	2	P	P	P
4	3	F	F	F
5	4	P	P	P
6	5	P	P	F
7	4	P	P	P
8	5	P	P	P
9	4	P	P	P
4	3	F	F	F

Questions:

a) Write a query to fetch Employee name whose grade greater than 200.
b) Write a query to fetch the department name where only male staff available.
c) Write a query to fetch the second highest salaried employer.
d) Write a query to fetch the employ details who did not assigned with any students.
e) Write a query to fetch the student who passed in all three subjects.
f) Write a query to fetch the top employee details where all of his students passed in the subjects.

Code :

```
-- Question 3
-- Movella Assesment


-- Creating a Table Employee
CREATE TABLE Employee (
    Emp_Id int,  --could have made this Primary Key like Emp_Id int Primary Key
    Names varchar(255),
    Department varchar(255),
    Grade int,
    Salary int,
    Gender varchar(1)
);

-- Inserting Values
Insert Into Employee Values(1,'Robert','Computer Science',100,100000,'M');
Insert Into Employee Values(2,'Ram','Information Technology',101,134000,'M');
Insert Into Employee Values(3,'Alex','Computer Science',200,123456,'M');
Insert Into Employee Values(4,'Radha','Information Technology',201,23456,'F');
Insert Into Employee Values(5,'Santhi','Civil',300,234567,'F');
Insert Into Employee Values(6,'Madhavi','BioTech',301,234567,'F');

-- Displaying Values
Select * From Employee;


-- Creating table Employees
CREATE TABLE Student (
    Student_Id int , --could have made this Primary Key like Student_Id int Primary Key
    Class_Teacher_Employee_Id int,
    Subject1 varchar(1),
    Subject2 varchar(1),
    Subject3 varchar(1)
     --could have made this Foreign Key Class_Teacher_Employee_Id
    --FOREIGN KEY (Student_Id) REFERENCES Employee(Emp_Id)
    -- did not make it foreign key and primary key because there were many repeated values
where integrity issues would've been there
);

-- Inserting Values
```

```
Insert Into Student Values(1,1,'P','P','F');
Insert Into Student Values(2,1,'P','F','P');
Insert Into Student Values(3,2,'P','P','P');
Insert Into Student Values(4,3,'F','F','F');
Insert Into Student Values(5,4,'P','P','P');
Insert Into Student Values(6,5,'P','P','F');
Insert Into Student Values(7,4,'P','P','P');
Insert Into Student Values(8,5,'P','P','P');
Insert Into Student Values(9,4,'P','P','P');
Insert Into Student Values(4,3,'F','F','F');

-- displaying Values
Select * From Student;


-- a) Write a query to fetch Employee name whose grade greater than 200.
Select Names from Employee where Grade>200;

-- b) Write a query to fetch the department name where only male staff available.
Select distinct Department from Employee where Gender='M' and Department Not In ( Select
distinct Department from Employee where Gender<>'M');

-- c) Write a query to fetch the second highest salaried employer.
Select Names,Salary from Employee where Salary=(Select Max(Salary) As Salary from
Employee where Salary<(Select Max(Salary) from Employee));

-- d) Write a query to fetch the employ details who did not assigned with any students.
Select * from Employee where Emp_Id Not In(Select Class_Teacher_Employee_Id From
Student);

-- e) Write a query to fetch the student who passed in all three subjects.
Select * From Student where Subject1='P' and Subject2='P' and Subject3='P';

-- f) Write a query to fetch the top employee details where all of his students passed in the
subjects.
Select * from Employee where Emp_Id In (Select Class_Teacher_Employee_Id From Student
where Subject1='P' and Subject2='P' and Subject3='P');
```

ScreenShots of The Output

Statement 863

```
CREATE TABLE Employee (
    Emp_Id int,  --could have made this Primary Key like Emp_Id int Primary Key
    Names varchar(255),
    Department varchar(255),
    Grade int,
    Salary int,
    Gender varchar(1)
)
```

```
Table created.
```

Statement 864

```
Insert Into Employee Values(1,'Robert','Computer Science',100,100000,'M')
```

```
1 row(s) inserted.
```

Statement 865

```
Insert Into Employee Values(2,'Ram','Information Technology',101,134000,'M')
```

```
1 row(s) inserted.
```

Statement 866

```
Insert Into Employee Values(3,'Alex','Computer Science',200,123456,'M')
```

```
1 row(s) inserted.
```

Statement 867

```
Insert Into Employee Values(4,'Radha','Information Technology',201,23456,'F')
```

```
1 row(s) inserted.
```

Statement 868

```
Insert Into Employee Values(5,'Santhi','Civil',300,234567,'F')
```

```
1 row(s) inserted.
```

Statement 869

```
Insert Into Employee Values(6,'Madhavi','BioTech',301,234567,'F')
```

```
1 row(s) inserted.
```

Statement 870

```
Select * From Employee
```

EMP_ID	NAMES	DEPARTMENT	GRADE	SALARY	GENDER
1	Robert	Computer Science	100	100000	M
2	Ram	Information Technology	101	134000	M
3	Alex	Computer Science	200	123456	M
4	Radha	Information Technology	201	23456	F
5	Santhi	Civil	300	234567	F
6	Madhavi	BioTech	301	234567	F

Download CSV
6 rows selected.

Statement 871

```
CREATE TABLE Student (
    Student_Id int , --could have made this Primary Key like Student_Id int Primary Key
    Class_Teacher_Employee_Id int,
    Subject1 varchar(1),
    Subject2 varchar(1),
    Subject3 varchar(1)
     --could have made this Foreign Key Class_Teacher_Employee_Id
    --FOREIGN KEY (Student_Id) REFERENCES Employee(Emp_Id)
    -- did not make it foreign key and primary key because there were many repeated values where integrity issues would've been there
```

Statement 872

```
Insert Into Student Values(1,1,'P','P','F')
```

```
1 row(s) inserted.
```

Statement 873

```
Insert Into Student Values(2,1,'P','F','P')
```

```
1 row(s) inserted.
```

Statement 874

```
Insert Into Student Values(3,2,'P','P','P')
```

```
1 row(s) inserted.
```

Statement 875

```
Insert Into Student Values(4,3,'F','F','F')
```

```
1 row(s) inserted.
```

Statement 876

```
Insert Into Student Values(5,4,'P','P','P')
```

```
1 row(s) inserted.
```

Statement 877

```
Insert Into Student Values(6,5,'P','P','F')
```

```
1 row(s) inserted.
```

Statement 878

```
Insert Into Student Values(7,4,'P','P','P')
```

```
1 row(s) inserted.
```

Statement 879

```
Insert Into Student Values(8,5,'P','P','P')
```

```
1 row(s) inserted.
```

Statement 880

```
Insert Into Student Values(9,4,'P','P','P')
```

```
1 row(s) inserted.
```

Statement 881

```
Insert Into Student Values(4,3,'F','F','F')
```

```
1 row(s) inserted.
```

Statement 882

```
Select * From Student
```

STUDENT_ID	CLASS_TEACHER_EMPLOYEE_ID	SUBJECT1	SUBJECT2	SUBJECT3
1	1	P	P	F
2	1	P	F	P
3	2	P	P	P
4	3	F	F	F
5	4	P	P	P
6	5	P	P	F

6	5	P	P	F
7	4	P	P	P
8	5	P	P	P
9	4	P	P	P
4	3	F	F	F

Download CSV
10 rows selected.

Statement 883

```
Select Names from Employee where Grade>200
```

NAMES
Radha
Santhi
Madhavi

Download CSV
3 rows selected.

Statement 884

```
Select distinct Department from Employee where Gender='M' and Department Not In ( Select distinct Department from Employee where Gender<>'M')
```

DEPARTMENT
Computer Science

Download CSV

Statement 885

```
Select Names,Salary from Employee where Salary=(Select Max(Salary) As Salary from Employee where Salary<(Select Max(Salary) from Employee))
```

NAMES	SALARY
Ram	134000

Download CSV

Statement 886

```
Select * from Employee where Emp_Id Not In(Select Class_Teacher_Employee_Id From Student)
```

EMP_ID	NAMES	DEPARTMENT	GRADE	SALARY	GENDER
6	Madhavi	BioTech	301	234567	F

Download CSV

Statement 887

```
Select * From Student where Subject1='P' and Subject2='P' and Subject3='P'
```

STUDENT_ID	CLASS_TEACHER_EMPLOYEE_ID	SUBJECT1	SUBJECT2	SUBJECT3
3	2	P	P	P
5	4	P	P	P
7	4	P	P	P
8	5	P	P	P
9	4	P	P	P

Download CSV
5 rows selected.

Statement 888

```
Select * from Employee where Emp_Id In (Select Class_Teacher_Employee_Id From Student where Subject1='P' and Subject2='P' and Subject3='P')
```

EMP_ID	NAMES	DEPARTMENT	GRADE	SALARY	GENDER
2	Ram	Information Technology	101	134000	M
4	Radha	Information Technology	201	23456	F
5	Santhi	Civil	300	234567	F

Download CSV
3 rows selected.