# Movella

#### SQL:

Table Name: Employee

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

#### Student:

Student_Id	Class_Teacher_Employee_Id	Subject1	Subject2	Subject3
1	1	Р	Р	F
2	1	Р	F	P
3	2	Р	Р	P
4	3	F	F	F
5	4	Р	Р	P
6	5	Р	Р	F
7	4	Р	Р	Р
8	5	Р	Р	Р
9	4	Р	Р	Р
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','P');
Insert Into Student Values(8,5,'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.

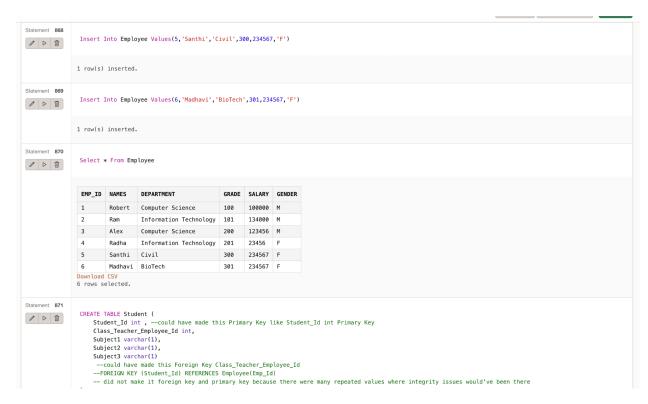
Select \* from Employee where Emp\_Id In (Select Class\_Teacher\_Employee\_Id From Student where Subject1='P' and Subject2='P' and Subject3='P');

## ScreenShots of The Output

```
CREATE TABLE Employee (

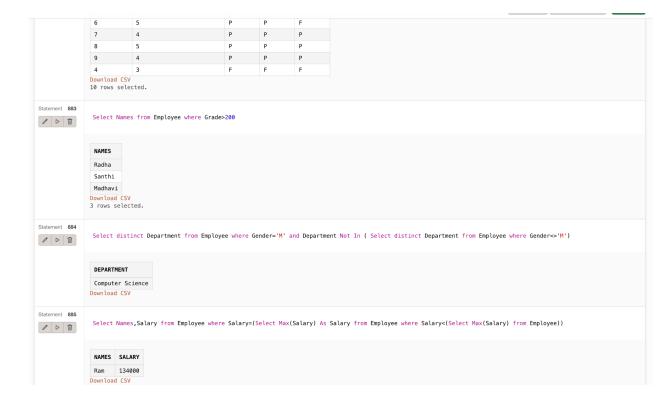
Emp_Id int, —-could have made this Primary Key like Emp_Id int Primary Key

Names varchar(255),
Grade int.
                    Salary int,
Gender varchar(1)
                Insert Into Employee Values(1.'Robert', 'Computer Science', 100, 100000, 'M')
0 0 1
               1 row(s) inserted.
Statement 865
                Insert Into Employee Values(2,'Ram','Information Technology',101,134000,'M')
0 0 1
               1 row(s) inserted.
Statement 866
                Insert Into Employee Values(3,'Alex','Computer Science',200,123456,'M')
0 0 1
               1 row(s) inserted.
Statement 867
                Insert Into Employee Values(4,'Radha','Information Technology',201,23456,'F')
1 row(s) inserted.
```



Statement 872	<pre>Insert Into Student Values(1,1,'P','P','F')</pre>
	1 row(s) inserted.
Statement 873	<pre>Insert Into Student Values(2,1,'P','F','P')</pre>
	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	<pre>Insert Into Student Values(6,5,'P','P','F')</pre>
	1 row(s) inserted.

Statement 878	Insert Into	Student Values(7,4,'P','P',	'P')				
	1 row(s) ins	erted.					
Statement 879	Insert Into	Student Values(8,5,'P','P',	'P')				
	1 row(s) ins	erted.					
Statement 880	Insert Into	Student Values(9,4,'P','P',	'P')				
	1 row(s) ins	erted.					
Statement 881	<pre>Insert Into Student Values(4,3,'F','F','F')</pre>						
	1 row(s) inserted.						
Statement 882	Select * Fro	om Student					
	STUDENT_ID	CLASS_TEACHER_EMPLOYEE_ID	SUBJECT1	SUBJECT2	SUBJECT3		
	1	1	Р	P	F		
	2	1	Р	F	P		
	3	2	Р	P	P		
	4	3	F	F	F		
	5	4	Р	P	P		
	6	5	P	P	F		





 ${\tt Select * from \ Employee \ where \ Emp\_Id \ Not \ In(Select \ Class\_Teacher\_Employee\_Id \ From \ Student)}$ 

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	Р
5	4	P	P	P
7	4	P	P	Р
8	5	P	P	P
9	4	P	Р	Р

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	М
4	Radha	Information Technology	201	23456	F
5	Santhi	Civil	300	234567	F
Download	CSV				