MINI PROJECT OF SQL

```
select * from employee_details;
 create table employee_details(
 emp_id int primary key,
first_name varchar(225),
last_name varchar(225),
gender char(6),
salary int,
city varchar(100)
);

insert into
employee_details(emp_id,first_name,last_name,gender,salary,city)values(
102,'Prabhat','Mudrale','Male',150000,'Pune'),
(103,'Ashwin','Kumar','Male',200000,'Pune'),
(104,'Rutuja','Patil','Female',50000,'Kolhapur'),
(105,'Nikita','Jadhav','Female',75000,'Satara'),
(106,'Ayurvedi','Nalawde','Female',10000,'Mumbai')
(107,'Ayurvedi','Nalawde','Female',10000,'Mumbai');
```

```
select * from employee_details ;
```

emp_id	first_name	last_name	gender	salary	city
101	Nikita	Jadhav	Female	75000	Satara
102	Prabhat	Mudrale	Male	150000	Pune
103	Ashwin	Kumar	Male	200000	Pune
104	Rutuja	Patil	Female	50000	Kolhapur
105	Nikita	Jadhav	Female	175000	Satara
106	Ayurvedi	Nalawde	Female	10000	Mumbai
107	Ayurvedi	Nalawde	Female	10000	Mumbai

```
create table employee_working_project(
proj_id int,
emp_id int,
proj_name varchar(200),
emp_position varchar(225),
DOJ date
);

ALTER TABLE employee_working_project
ADD FOREIGN KEY (emp_id) REFERENCES employee_details(emp_id);
```

```
insert into
employee_working_project(proj_id,emp_id,proj_name,emp_position,doj)values
(
2,102,'EMR','Developer','2024-09-12'),
(3,103,'Time Tracker','QA','2023-01-03'),
(4,101,'Infusive','Manager','2022-09-11'),
```

```
(5,105,'Pikel ball','Designer','2023-07-12'),
(6,103,'Time Tracker','Developer','2024-09-12'),
(7,102,'Infusive','Developer','2024-11-12');


select * from employee_working_project ;
```

proj_id	emp_id	proj_name	emp_position	doj
1	102	EMR	Developer	12-09-2024
2	102	EMR	Developer	12-09-2024
3	103	Time Tracker	QA	03-01-2023
4	101	Infusive	Manager	11-09-2022
5	105	Pikel ball	Designer	12-07-2023
6	103	Time Tracker	Developer	12-09-2024
7	102	Infusive	Developer	12-11-2024

```
1)Write query to rterive full name of employee and fine employee whos
name contain character e at last [osition of surname]

select emp_id,CONCAT(first_name,' ',last_name) As Full_Name
from employee_details;

select emp_id,CONCAT(first_name,' ',last_name) As Full_Name
from employee_details
where last_name LIKE '%e';



2)write query to find 3 rd highest salary from employee_details table
without using LIMIT

select salary
from employee_details e1
where 3=(
select COUNT(DISTINCT (e2.salary))
from employee_details e2
where e1.salary>e2.salary
);

select salary
from employee_details
order by  salary DESC;

3)write query to retrive male and female employee ratio

select
(COUNT(*) FILTER(where gender='Female')*100.0/COUNT(*)) As Female_Ratio,
(COUNT(*) FILTER(where gender='Male')*100.0/COUNT(*)) As Male_Ratio
```

```
from employee_details;
```

4)write a query to retrive list of employee working on same project

```
SELECT p.proj_name, CONCAT(e.first_name,' ', e.last_name) As
employee_name
FROM employee_working_project p
JOIN employee_details e ON p.emp_id = e.emp_id
ORDER BY p.proj_id;
```

5)write query to create 3 group based on salary column, if salary less than 20000 then low,
in between 20000 to 100000 then medium and above 1L then high

```
select first_name,last_name,salary,
 CASE
   when salary > 100000 then 'High'
   when salary >=20000 AND salary <= 100000 then 'Medium'
   ELSE 'Low'
 END
 from employee_details;
```

6)write query find total employee joined each year

```
select EXTRACT('year' from doj) As join_year, COUNT(*) As Employee_count
from employee_working_project
group by join_year
order by join_year ASC;
```

7)write query to retrive total salary for each city

```
select emp_id,first_name,last_name,
      SUM(CASE when city='Pune' then salary END) As "Pune",
      SUM(CASE when city='Kolhapur' then salary END) As "Kolhapur",
      SUM(CASE when city='Satara' then salary END) As "Satara",
      SUM(CASE when city='Mumbai' then salary END) As "Mumbai"
      from employee_details
      group by emp_id,first_name,last_name;
```

8)write query to find duplicate record from employee_details table

```
select first_name,last_name,gender,salary,city,COUNT(*) As
duplicate_count
from employee_details
group by first_name,last_name,gender,salary,city
having COUNT(*)>1;
```