**Problem Statement 8:**

Consider the following database

Employee(emp\_no,name,skill,pay-rate) eno primary key

Position(posting\_no,skill) posting\_no primary key

Duty\_allocation(posting\_no,emp\_no,day,shift)

create table Employee (emp\_no varchar(10) primary key , name varchar(10), skill varchar(10),payrate varchar(10));

create table Position (posting\_no varchar(10) primary key , skill varchar(10));

create table Duty\_allocation(posting\_no varchar(10), emp\_no varchar(10), day varchar(10), shift varchar(10));

insert into Employee(emp\_no, name, skill, payrate) values ('123461', 'ABC','chef', '10000');

insert into Employee(emp\_no, name, skill, payrate) values ('123460', 'PQR','manager', '15000');

insert into Employee(emp\_no, name, skill, payrate) values ('123462', 'LMN','chef', '10000');

insert into Employee(emp\_no, name, skill, payrate) values ('123463', 'XYZ','waiter', '5000');

insert into Employee(emp\_no, name, skill, payrate) values ('123464', 'DEF','captain', '7000');

insert into Duty\_allocation(posting\_no , emp\_no, day, shift)values ('01','123461','Monday','Morning');

insert into Duty\_allocation(posting\_no , emp\_no, day, shift)values ('02','123460','Monday','Morning');

insert into Duty\_allocation(posting\_no , emp\_no, day, shift)values ('03','123463','Monday','Morning');

insert into Duty\_allocation(posting\_no , emp\_no, day, shift)values ('04','123464','Monday','Morning');

insert into Duty\_allocation(posting\_no , emp\_no, day, shift)values ('01','123462','Monday','Morning');

insert into Position (posting\_no, skill)values('01','chef');

insert into Position (posting\_no, skill)values('02','manager');

insert into Position (posting\_no, skill)values('03','waiter');

insert into Position (posting\_no, skill)values('04','cptain');

**Find the SQL queries for the following:**

1. **Get the duty allocation details for emp\_no 123461 for the month of April 1986.**

select \* from Duty\_allocation where emp\_no = '123461' and shift = 'morning';

1. **Find the shift details for Employee ‘xyz’**

select name,day,shift from Employee inner join Duty\_allocation on Employee.emp\_no = Duty\_allocation.emp\_no where name = 'XYZ';

1. **Get employees whose rate of pay is more than or equal to the rate of pay of employee ‘xyz’**

select \* from Employee where payrate >= '5000';

**4. Get the names and pay rates of employees with emp\_no less than 123460 whose rate of pay is more than the rate of pay of at least one employee with emp\_no greater than or equal to 123460.**

Select name, payrate from Employee where emp\_no < '123460' and payrate > some (select payrate from Employee where emp\_no >= 123460);

**5. Find the names of employees who are assigned to all positions that require a Chef’s skill**

select \* from Employee where skill ='chef';

**6 .Find the employees with the lowest pay rate**

select emp\_no, Name, Payrate from Employee where payrate <= all (select payrate from Employee)

**7 .Get the employee numbers of all employees working on at least two dates.**

**8 .Get a list of names of employees with the skill of Chef who are assigned a duty**

select \* from Employee where skill = 'chef';

**9 .Get a list of employees not assigned a duty**

select \* from Duty\_allocation where shift = 'Null';

**10.Get a count of different employees on each shift**

select shift, COUNT(emp\_no) from Duty\_allocation group by shift;