**5. Consider the given database Employee(emp-no,skill,pay-rate) Position(posting-no,skill) Duty-allocation(posting-no,emp-no,day,shift)**

1. Find duty allocation details for emp-no 101 for the month of April 2003.

SELECT \*

FROM Duty\_allocation

WHERE emp\_no = 101 AND MONTH(day) = 4 AND YEAR(day) = 2003;

2. Find the shift details of employee „Bhushan”

SELECT d.posting\_no, d.day, d.shift

FROM Duty\_allocation d

JOIN Employee e ON d.emp\_no = e.emp\_no

WHERE e.emp\_name = 'Bhushan';

3. find employees whose rate of pay is more than or equal to the rate of pay of employee „AHIRE‟.

SELECT \*

FROM Employee

WHERE pay\_rate >= (SELECT pay\_rate FROM Employee WHERE emp\_name = 'AHIRE');

4. find the names and pay rates of employee with emp-no less than 1000 whose pay-rate is more than the rate of pay of at least one employee with emp-no greatar than or equal to 1000.

SELECT e1.emp\_name, e1.pay\_rate

FROM Employee e1

WHERE e1.emp\_no < 1000

AND e1.pay\_rate > (SELECT MIN(e2.pay\_rate)

FROM Employee e2

WHERE e2.emp\_no >= 1000);

5. Find the employees with the lowest pay-rate

SELECT \*

FROM Employee

WHERE pay\_rate = (SELECT MIN(pay\_rate) FROM Employee);

**6) Consider the following database. Doctor (Doctor\_no, Doctor\_name, Address, City). Hospital (Hospital\_no, Name, Street, City). Doc\_Hosp (Doctor\_no, Hospital\_no, Date).**

1) **Find the details of doctors and hospital names to which each doctor has visited:**

SELECT d.Doctor\_no, d.Doctor\_name, d.Address, d.City, h.Name AS Hospital\_Name

FROM Doctor d

JOIN Doc\_Hosp dh ON d.Doctor\_no = dh.Doctor\_no

JOIN Hospital h ON dh.Hospital\_no = h.Hospital\_no;

2) **Find all doctors who have visited a hospital in the same city in which they live:**

SELECT d.Doctor\_no, d.Doctor\_name, d.Address, d.City

FROM Doctor d

JOIN Doc\_Hosp dh ON d.Doctor\_no = dh.Doctor\_no

JOIN Hospital h ON dh.Hospital\_no = h.Hospital\_no

WHERE d.City = h.City;

3)**Find the hospitals that "Dr. Joshi" has visited:**

SELECT h.Hospital\_no, h.Name, h.Street, h.City

FROM Doctor d

JOIN Doc\_Hosp dh ON d.Doctor\_no = dh.Doctor\_no

JOIN Hospital h ON dh.Hospital\_no = h.Hospital\_no

WHERE d.Doctor\_name = 'Dr. Joshi';

4)**Count the number of doctors who visited "Shree Clinic" on 1st March 2023:**

SELECT COUNT(\*) AS Doctor\_Count

FROM Doc\_Hosp dh

JOIN Hospital h ON dh.Hospital\_no = h.Hospital\_no

WHERE h.Name = 'Shree Clinic' AND dh.Date = '2023-03-01';

5)**Find out how many times "Dr. Joshi" has visited "Shree Clinic":**

SELECT COUNT(\*) AS Visit\_Count

FROM Doc\_Hosp dh

JOIN Doctor d ON dh.Doctor\_no = d.Doctor\_no

JOIN Hospital h ON dh.Hospital\_no = h.Hospital\_no

WHERE d.Doctor\_name = 'Dr. Joshi' AND h.Name = 'Shree Clinic';