

# Phase 2 Project

## Pramod KC (50437964)

This is my 2<sup>nd</sup> phase of my project, my project is hospital management system. I have all together 13 tables. I have taken snapshot of all the table I have created and inserted the 3 data entities in each table.

```
pramod.kc=> \d
List of relations
Schema | Name | Type | Owner
-----+-----+-----+-----
public | doctor | table | pramod.kc
public | employee | table | pramod.kc
public | guide | table | pramod.kc
public | medicine | table | pramod.kc
public | nurse | table | pramod.kc
public | patient | table | pramod.kc
public | pays_for | table | pramod.kc
public | receptnist | table | pramod.kc
public | record | table | pramod.kc
public | room | table | pramod.kc
public | room_class | table | pramod.kc
public | take_care | table | pramod.kc
public | treatment | table | pramod.kc
(13 rows)
```

```
pramod.kc=> select * from doctor;
intern | guest | parmanent | id_number
-----+-----+-----+-----
Dr.Raffel |  |  | E7
  | DR.Jenesse |  | E21
  |  | DR.KC | EF41
(3 rows)
```

```
pramod.kc=> select * from guide;
id | room_number
---+-----
2345 | N1
2346 | N2
2307 | N3
(3 rows)
```

```
pramod.kc=> select * from medicine;
name | time_to_take | type
-----+-----+-----
Paravitamin | 9 am | Energy
Gulcose | 12 pm | Energy
Paracetamol | 8 pm | fever
(3 rows)
```

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```
pramod.kc=> select *from nurse;
intern | guest | parmanent | id_number
-----+-----+-----+-----
ronny  |  |  | N1
      | Bunny |  | N2
      |  | Honney | N3
(3 rows)

pramod.kc=> Select * from patient;
name | patient_id_number | address | phone_number | sex | admitted_date | discharged_date | age
-----+-----+-----+-----+-----+-----+-----+-----
Janny | p3 | NYC Joe | 879564356 | male | Feb 3 | Feb 26 | 21
Rabi | p1 | NYC Jonsebor | 879544356 | male | Jan 3 | Jan 26 | 29
James | p21 | NYC Wallstreet | 879504356 | male | Jan 31 | Feb 30 | 79
(3 rows)

pramod.kc=> Select * from pays-for;
ERROR: syntax error at or near "-."
LINE 1: Select * from pays-for;
                        ^

pramod.kc=> Select * from pays_for;
name | patient_id_number
-----+-----
Paravitamin | p1
Gulcose | p2
Paracetamol | p3
(3 rows)
```

```
pramod.kc=> select * from record;
record_no | appointment_with
-----+-----
E7 | DR.Raffel
E8 | DR.Janesses
E9 | DR.KC
(3 rows)

pramod.kc=> select * from room;
room_number
-----
9756
9654
9346
(3 rows)

pramod.kc=> select * from room_class;
general | first_class | second_class | room_number
-----+-----+-----+-----
(0 rows)
```

# Phase 2 Project

## Pramod KC (50437964)

```
pramod.kc=> select * from take_care;
record_no | id_number
-----+-----
E7        | E21
E8        | E7
E9        | EF41
(3 rows)

pramod.kc=> Select * from treatment;
id_number | patient_id_number
-----+-----
E7        | p1
E21       | p3
EF41      | p2
(3 rows)
```

1. Find all the Employees' names.

```
pramod.kc=> select name from employee;
name
-----
Peter
Rambo
Adil
Dr.KC
Dr.Raffel
Dr.Jenesse
(6 rows)

pramod.kc=> █
```

```
pramod.kc=> select * from employee;
name | id_number | address | sex | office_hours | specialization_field | salary | phone_number
-----+-----+-----+-----+-----+-----+-----+-----
Peter | 56784 | d Street | Male | 9 | Cardeologist | 40000 | 8704237
Rambo | 56794 | ad Street | Male | 10 | Phesotheraphist | 5000000 | 1704237
Adil | 16794 | ADCD Street | Female | 10 | Phesotheraphist | 500000 | 2704237
Dr.KC | EF41 | Walking loads Street | Male | 3 | Dentist | 700000 | 4704237
Dr.Raffel | E7 | Walking Street | Female | 10 | Physothirapist | 800000 | 5704237
Dr.Jenesse | E21 | Walking dead Street | Male | 5 | Cardiologist | 600000 | 3704237
(6 rows)

pramod.kc=> █
```

# Phase 2 Project

## Pramod KC (50437964)

2. Find salary of peter.

```
pramod.kc=> select salary from employee where name = 'Peter';
salary
-----
40000
(1 row)
```

3. Find all the Employee who are dentist.

```
pramod.kc=> select name from employee where specialization_field = 'Dentist';
name
-----
Dr.KC
(1 row)

pramod.kc=> █
```

4. Find the employee who lives in d street.

```
pramod.kc=> select name from employee where address = 'd Street';
name
-----
Peter
(1 row)

pramod.kc=> █
```

# Phase 2 Project

## Pramod KC (50437964)

5. Find all the Employee who are Phesotheraphist

```
pramod.kc=> select name from employee where specialization_field = 'Phesotheraphist';
              name
-----
Rambo
Adil
(2 rows)

pramod.kc=> █
```

6. Find all the Employee whose office hours is less than 10. 6. Find all the Employee whose office hours is less than 10.

```
pramod.kc=> select name from employee where office_hours < 10;
              name
-----
Peter
Dr.KC
Dr.Jenesse
(3 rows)

pramod.kc=> █
```

7. Find all the Employee whose salary is less than 100000.

```
pramod.kc=> select name from employee where salary < 100000;
              name
-----
Peter
(1 row)
```

# Phase 2 Project

## Pramod KC (50437964)

8. Find the Employee whose id is EF41 and is Dentist.

```
pramod.kc=> select name from employee where id_number = 'EF41'and specialization_field = 'Dentist';
              name
-----
Dr.KC
(1 row)

pramod.kc=> █
```

9. Find the Employee whose salary is above 50,000 and office hour is greater than 3.

```
pramod.kc=> select name from employee where salary > 500000 and office_hours > 3;
              name
-----
Rambo
Dr.Raffel
Dr.Jenesse
(3 rows)

pramod.kc=> █
```

10. Find the addresses, and names for those who are dentist.

```
pramod.kc=> select name, address from employee where specialization_field = 'Dentist';
              name | address
-----+-----
Dr.KC             | Walking loads Street
(1 row)
```

11. Find the address of the doctor who gives treatment to the patient\_id\_number



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## Pramod KC (50437964)

p1

```
pramod.kc=> select address from treatment, employee where patient_id_number = 'p1' and treatment.id_number = employee.id_number;
address
-----
Walking Street
(1 row)

pramod.kc=> 
```

12. Find the office\_hour of the doctor who gives treatment to the patient\_id\_number p2.

```
pramod.kc=> select office_hours from treatment, employee where patient_id_number = 'p2' and treatment.id_number = employee.id_number;
office_hours
-----
3
(1 row)
```

13. Find the name, office hour of the doctor who gives treatment to the patient\_id\_number p3.

# Phase 2 Project

## Pramod KC (50437964)

```
pramod.kc=> select office_hours,name from employee,treatment where patient_id_number = 'p3' and treatment.id_number = employee.id_number;
office_hours |      name
-----+-----
          5 | Dr.Jenesse
(1 row)
```

14. Find the name, office hour and Specialization of the doctor who gives treatment to the patient\_id\_number p2 who is the patient of cardio. Is the doctor chosen for this operation is good to take treatment?

```
pramod.kc=> select office_hours,name,specialization_field from employee,treatment where patient_id_number = 'p2' and treatment.id_number = employee.id_number;
office_hours |      name      | specialization_field
-----+-----+-----
          3 | Dr.KC          | Dentist
(1 row)
```

No the doctor is not good to do operation since he is dentist and the patient is having problem about cardio.



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## Pramod KC (50437964)

15. Find Name and address of those employee, whose salary is more than the average salary with the help of subquery ALL.

```
pramod.kc=> Select name, address from employee where salary >= ALL (select avg(salary) from employee);
```

name	address
Rambo	ad Street

(1 row)

16 Select name of the employee who are not guide with the use of NOT EXISTS subquery.

```
pramod.kc=> Select name from employee where not EXISTS ( select id from guide where id = id_number);
```

name
Peter
Rambo
Adil
Dr.KC
Dr.Raffel
Dr.Jenesse

(6 rows)

```
pramod.kc=> █
```

17. Select all the employee data except for those employees who have minimum salary?

```
pramod.kc=> SELECT * from employee where salary > any (select salary from employee);
```

name	id_number	address	sex	office_hours	specialization_field	salary	phone_number
Rambo	56794	ad Street	Male	10	Phesotheraphist	5000000	1704237
Adil	16794	ADCD Street	Female	10	Phesotheraphist	500000	2704237
Dr.KC	EF41	Walking loads Street	Male	3	Dentist	700000	4704237
Dr.Raffel	E7	Walking Street	Female	10	Physothirapist	800000	5704237
Dr.Jenesse	E21	Walking dead Street	Male	5	Cardiologist	600000	3704237

(5 rows)

# Phase 2 Project

## Pramod KC (50437964)

18. Find ID , office\_hours and Salary of those employee who are involved in treatments with the help of IN subquery.

```
pramod.kc=> Select name, office_hours, Salary from employee where id_number IN(Select treatment.id_number from treatment where employee.id_number=treatment.id_number);
```

name	office_hours	salary
Dr.KC	3	700000
Dr.Raffel	10	800000
Dr.Jenesse	5	600000

(3 rows)

```
pramod.kc=> █
```

19. Find the name of the medicines which are EXISTS in pays for with the use of EXIST subquery.

```
pramod.kc=> Select medicine.name from medicine where exists (select name from pays_for where pays_for.name = medicine.name);
```

name
Paravitamin
Gulcose
Paracetamol

(3 rows)

```
pramod.kc=> █
```

20. Find hospital rooms which are not used in guiding purpose with the help of NOT IN subquery.

```
pramod.kc=> Select id from guide where ID not IN(select room_number from room where room.room_number =guide.room_number);
```

id
2345
2346
2307

(3 rows)

```
pramod.kc=> █
```

# Phase 2 Project

## Pramod KC (50437964)

21. Find all the IDs of the employees (with reputation allows) who are also taking care of patients with the help of UNION ALL Subquery.

```
pramod.kc=> Select id_number from employee UNION all select id_number from take_care;
id_number
-----
56784
56794
16794
EF41
E7
E21
E21
E7
EF41
(9 rows)
```

22. Find the id of the Employees that are not taking care of patients with the help of EXCEPT sub Query.

```
pramod.kc=> Select id_number from employee except select id_number from take_care;
id_number
-----
16794
56794
56784
(3 rows)
```

23. Find the common ids which are in Employee as well as taking care of person list.

```
pramod.kc=> Select id_number from employee intersect select id_number from take_care;
id_number
-----
E7
E21
EF41
(3 rows)

pramod.kc=> █
```

# Phase 2 Project

## Pramod KC (50437964)

24, Select all medicines names which are in medicines as well as in pays for with the use of UNION ( without repetition of medicine name)

```
pramod.kc=> select name from pays_for UNION select name from medicine;
      name
-----
Paravitamin
Paracetamol
Gulcose
(3 rows)

pramod.kc=> █
```

25. Find name of the all medicines since which are in medicines but not in pays for with the help of EXCEPT subquery.

```
pramod.kc=> select name from pays_for except select name from medicine;
      name
-----
(0 rows)

pramod.kc=> █
```