

Suman Paudel (33)

Assignment II

Lab 2:

Prepare Lab Sheet of MYSQL Statements for following.

Insert at least 5 tuples in each of the tables of the Yourname_Roll_COMPANY database in LAB-1.

SQL Script:

For Office Table:

```
INSERT INTO Office (Onumber, Oname, Country) VALUES (1, 'Suman_Office_33', 'Nepal');

INSERT INTO Office (Onumber, Oname, Country)
VALUES
  (2, 'Suman_Ncell_33', 'Nepal'),
  (3, 'Prabhat Ale', 'USA'),
  (4, 'Anish Thapaliya', 'India'),
  (5, 'Gaurav Pandey', 'Japan');
```

Output:

```
suman_33_company=# select * from office;
 onumber | oname | country
+-----+-----+-----+
(0 rows)

suman_33_company=# INSERT INTO Office (Onumber, Oname, Country) VALUES (1, 'Suman_Office_33', 'Nepal');
INSERT 0 1
suman_33_company=# INSERT INTO Office (Onumber, Oname, Country)
suman_33_company=# VALUES
suman_33_company=# (2, 'Suman Paudel', 'Nepal'),
suman_33_company=# (3, 'Prabhat Ale', 'USA'),
liya', 'suman_33_company=# (4, 'Anish Thapaliya', 'India'),
suman_33_company=# (5, 'Gaurav Pandey', 'Japan');
INSERT 0 4
suman_33_company=# select * from office;
 onumber | oname | country
+-----+-----+-----+
 1 | Suman_Office_33 | Nepal
 2 | Suman Paudel | Nepal
 3 | Prabhat Ale | USA
 4 | Anish Thapaliya | India
 5 | Gaurav Pandey | Japan
(5 rows)

suman_33_company=#
```

For Employee Table:

```

INSERT INTO employee (SSN, Ename, Gender, Bdate, Address, SALARY, Ono,
Years of experience)
VALUES (33, 'Suman Paudel', 'M', '1997-10-22', 'Kathmanu, Nepal', 30000.00,
1, 3);

INSERT INTO employee (SSN, Ename, Gender, Bdate, Address, SALARY, Ono,
Years of experience)
VALUES
(1, 'Rekha Thapa', 'F', '1992-03-22', 'Kathmandu, Nepal', 55000.00, 2, 5),
(2, 'KP Oli', 'M', '1978-11-08', 'Bhaktapur, Nepal', 72000.00, 3, 2),
(3, 'Puspa Kamal Dahal Pracanda', 'M', '1990-09-01', 'Lalitpur, Nepal',
48000.00, 4, 3),
(4, 'Rabi Lamichane', 'M', '1983-04-30', 'Chitwan, Nepal', 60000.00, 4, 7);

```

```

suman_33_company=# select * from employee;
 ssn | ename | gender | bdate | address | salary | ono | years_of_experience
-----+-----+-----+-----+-----+-----+-----+-----
(0 rows)

suman_33_company=#
suman_33_company=# INSERT INTO employee (SSN, Ename, Gender, Bdate, Address, SALARY, Ono, Years_of_experience)
suman_33_company=# VALUES (33, 'Suman Paudel', 'M', '1997-10-22', 'Kathmanu, Nepal', 30000.00, 1, 3);
INSERT 0 1
suman_33_company=# INSERT INTO employee (SSN, Ename, Gender, Bdate, Address, SALARY, Ono, Years_of_experience)
suman_33_company=# VALUES
suman_33_company=# (1, 'Rekha Thapa', 'F', '1992-03-22', 'Kathmandu, Nepal', 55000.00, 2, 5),
suman_33_company=# (2, 'KP Oli', 'M', '1978-11-08', 'Bhaktapur, Nepal', 72000.00, 3, 12),
suman_33_company=# (3, 'Puspa Kamal Dahal Pracanda', 'M', '1990-09-01', 'Lalitpur, Nepal', 48000.00, 4, 3),
suman_33_company=# (4, 'Rabi Lamichane', 'M', '1983-04-30', 'Chitwan, Nepal', 60000.00, 4, 7);
INSERT 0 4
suman_33_company=# select * from employee;
 ssn | ename | gender | bdate | address | salary | ono | years_of_experience
-----+-----+-----+-----+-----+-----+-----+-----
 33 | Suman Paudel | M | 1997-10-22 | Kathmanu, Nepal | 30000.00 | 1 | 3
  1 | Rekha Thapa | F | 1992-03-22 | Kathmandu, Nepal | 55000.00 | 2 | 5
  2 | KP Oli | M | 1978-11-08 | Bhaktapur, Nepal | 72000.00 | 3 | 12
  3 | Puspa Kamal Dahal Pracanda | M | 1990-09-01 | Lalitpur, Nepal | 48000.00 | 4 | 3
  4 | Rabi Lamichane | M | 1983-04-30 | Chitwan, Nepal | 60000.00 | 4 | 7
(5 rows)

suman_33_company=#

```

```

INSERT INTO Project (Pnumber, Pname, Plocation, Onumber)
VALUES (66, 'Suman_ProjMDS', 'Kathmandu', 1);

INSERT INTO Project (Pnumber, Pname, Plocation, Onumber)
VALUES
(2, 'Project Kathmandu', 'Kathmandu', 2),
(3, 'Project Butwal', 'Butwal', 3),
(4, 'Project Chitwan', 'Chitwan', 4),
(5, 'Project Dhangadi', 'Dhangadi', 5);

```

```

suman_33_company=# select * from project;
 pnumber | pname | plocation | onumber
+-----+-----+-----+-----+
(0 rows)

suman_33_company=#
suman_33_company=# INSERT INTO Project (Pnumber, Pname, Plocation, Onumber)
suman_33_company=# VALUES (66, 'Suman_ProjMDS', 'Kathmandu', 1);
INSERT 0 1
suman_33_company=# INSERT INTO Project (Pnumber, Pname, Plocation, Onumber)
suman_33_company=# VALUES
suman_33_company=# (2, 'Project Kathmandu', 'Kathmandu', 2),
suman_33_company=# (3, 'Project Butwal', 'Butwal', 3),
suman_33_company=# (4, 'Project Chitwan', 'Chitwan', 4),
suman_33_company=# (5, 'Project Dhangadi', 'Dhangadi', 5);
INSERT 0 4
suman_33_company=# select * from project;
 pnumber |      pname      | plocation | onumber
+-----+-----+-----+-----+
      66 | Suman_ProjMDS   | Kathmandu |      1
       2 | Project Kathmandu | Kathmandu |      2
       3 | Project Butwal   | Butwal    |      3
       4 | Project Chitwan  | Chitwan   |      4
       5 | Project Dhangadi | Dhangadi  |      5
(5 rows)

suman_33_company=#

```

```

INSERT INTO Works on (ESSN, Pno)
VALUES (33, 66);

INSERT INTO Works on (ESSN, Pno)
VALUES
(1, 2),
(2, 3),
(3, 4),
(4, 5);

```

```

suman_33_company=# select * from works_on;
  essn | pno
-----+-----
(0 rows)

suman_33_company=# INSERT INTO Works_on (ESSN, Pno)
suman_33_company=# VALUES (33, 66);
INSERT 0 1
suman_33_company=# INSERT INTO Works_on (ESSN, Pno)
suman_33_company=# VALUES
suman_33_company=# (1, 2),
suman_33_company=# (2, 3),
suman_33_company=# (3, 4),
suman_33_company=# (4, 5);
INSERT 0 4
suman_33_company=# select * from works_on;
  essn | pno
-----+-----
   33  |  66
    1  |   2
    2  |   3
    3  |   4
    4  |   5
(5 rows)

suman_33_company=#

```

```

INSERT INTO Dependents (Did, Dname, Dage, SSN, Drelation)
VALUES (1, 'Pushpa Panta Jaisi', 13, 33, 'Mother');

INSERT INTO Dependents (Did, Dname, Dage, SSN, Drelation)
VALUES (2, 'Krishna Prasad Jaishi', 13, 33, 'Father'),
       (3, 'Silu Poudel', 12, 33, 'Sister'),
       (4, 'Sujita Sharma', 9, 33, 'Cousin Sister'),
       (5, 'Prabin Adhikari', 14, 33, 'Cousin Brother');

```

```

suman_33_company=# select * from dependents;
 did | dname | dage | ssn | drelation
-----+-----+-----+-----+-----
(0 rows)

suman_33_company=# INSERT INTO Dependents (Did, Dname, Dage, SSN, Drelation)
suman_33_company=# VALUES (1, 'Pushpa Panta Jaisi', 13, 33, 'Mother');
INSERT 0 1
suman_33_company=#
suman_33_company=#
suman_33_company=# INSERT INTO Dependents (Did, Dname, Dage, SSN, Drelation)
suman_33_company=# VALUES (2, 'Krishna Prasad Jaishi', 13, 33, 'Father'),
suman_33_company=#      (3, 'Silu Poudel', 12, 33, 'Sister'),
suman_33_company=#      (4, 'Sujita Sharma', 9, 33, 'Cousin Sister'),
suman_33_company=#      (5, 'Prabin Adhikari', 14, 33, 'Cousin Brother');
INSERT 0 4
suman_33_company=# select * from dependents;
 did |      dname      | dage | ssn |      drelation
-----+-----+-----+-----+-----
  1  | Pushpa Panta Jaisi |   13 |  33 |      Mother
  2  | Krishna Prasad Jaishi |   13 |  33 |      Father
  3  | Silu Poudel      |   12 |  33 |      Sister
  4  | Sujita Sharma    |    9 |  33 |  Cousin Sister
  5  | Prabin Adhikari  |   14 |  33 |  Cousin Brother
(5 rows)

suman_33_company=#

```

1. In the database Yourname_Roll_COMPANY in LAB-1, Create a table PF(PFID, SSN, PFCategoryName, Amount, Start_date, Remarks); where SSN is foreign key referencing Employee. The start date should be of date type.

SQL Script:

```

create table PF(
PFID int primary key,
SSN int,
PFCategoryName varchar(40),
Amount numeric,
Start_date date,
Remarks text,
constraint fk_pf foreign key(SSN) references Employee(SSN)
);

```

```

suman_33_company=# \dt
List of relations
Schema | Name | Type | Owner
+-----+-----+-----+-----+
public | dependents | table | postgres
public | employee | table | postgres
public | office | table | postgres
public | project | table | postgres
public | works_on | table | postgres
(5 rows)

suman_33_company=# create table PF(
suman_33_company(# PFID int primary key,
suman_33_company(# SSN int,
suman_33_company(# PFCategoryName varchar(40),
suman_33_company(# Amount numeric,
suman_33_company(# Start_date date,
suman_33_company(# Remarks text,
suman_33_company(# constraint fk_pf foreign key(SSN) references Employee(SSN)
suman_33_company(# );
CREATE TABLE
suman_33_company=# \dt
List of relations
Schema | Name | Type | Owner
+-----+-----+-----+-----+
public | dependents | table | postgres
public | employee | table | postgres
public | office | table | postgres
public | pf | table | postgres
public | project | table | postgres
public | works_on | table | postgres
(6 rows)

suman_33_company=# |

```

1. In the database Yourname_Roll_COMPANY in LAB-1, alter the table Employee and add an attribute Matrital_status of type varchar. Update the records in the table and set values of status to “Married”, “Single”, “Divorced”. At least three records should have status married.

```

ALTER table employee add column marital_status varchar(20);

```



```

suman_33_company=# select * from employee;

```

ssn	ename	gender	bdate	address	salary	ono	years_of_experience	marital_status
33	Suman Paudel	M	1997-10-22	Kathmanu, Nepal	30000.00	1	3	
1	Rekha Thapa	F	1992-03-22	Kathmandu, Nepal	55000.00	2	5	
2	KP Oli	M	1978-11-08	Bhaktapur, Nepal	72000.00	3	12	
3	Puspa Kamal Dahal Pracanda	M	1990-09-01	Lalitpur, Nepal	48000.00	4	3	
4	Rabi Lamichane	M	1983-04-30	Chitwan, Nepal	60000.00	4	7	

(5 rows)

```

suman_33_company=# update employee set marital_status = 'Single' WHERE ssn = 33;
UPDATE 1
suman_33_company=# update employee set marital_status = 'Married' WHERE ssn = 1;
UPDATE 1
suman_33_company=# update employee set marital_status = 'Married' WHERE ssn = 2;
UPDATE 1
suman_33_company=# update employee set marital_status = 'Married' WHERE ssn = 3;
UPDATE 1
suman_33_company=# update employee set marital_status = 'Divorced' WHERE ssn = 4;
UPDATE 1
suman_33_company=# select * from employee;

```

ssn	ename	gender	bdate	address	salary	ono	years_of_experience	marital_status
33	Suman Paudel	M	1997-10-22	Kathmanu, Nepal	30000.00	1	3	Single
1	Rekha Thapa	F	1992-03-22	Kathmandu, Nepal	55000.00	2	5	Married
2	KP Oli	M	1978-11-08	Bhaktapur, Nepal	72000.00	3	12	Married
3	Puspa Kamal Dahal Pracanda	M	1990-09-01	Lalitpur, Nepal	48000.00	4	3	Married
4	Rabi Lamichane	M	1983-04-30	Chitwan, Nepal	60000.00	4	7	Divorced

(5 rows)

```

suman_33_company=#

```

```

update employee set marital_status = 'Single' WHERE ssn = 33;
update employee set marital_status = 'Married' WHERE ssn = 1;
update employee set marital_status = 'Married' WHERE ssn = 2;
update employee set marital_status = 'Married' WHERE ssn = 3;
update employee set marital_status = 'Divorced' WHERE ssn = 4;

```

```

suman_33_company=# \d employee;

```

Column	Type	Collation	Nullable	Default
ssn	integer		not null	
ename	character varying(100)		not null	
gender	character(1)			
bdate	date			
address	character varying(100)			
salary	numeric(10,2)			0.00
ono	integer			
years_of_experience	integer			

Indexes:
"employee_pkey" PRIMARY KEY, btree (ssn)

Check constraints:
"employee_gender_check" CHECK (gender = ANY (ARRAY['M'::bpchar, 'F'::bpchar]))

Foreign-key constraints:
"employee_ono_fkey" FOREIGN KEY (ono) REFERENCES office(ono)

Referenced by:
TABLE "dependents" CONSTRAINT "dependents_ssn_fkey" FOREIGN KEY (ssn) REFERENCES employee(ssn) ON UPDATE SET NULL ON DELETE SET NULL
TABLE "pf" CONSTRAINT "fk_pf" FOREIGN KEY (ssn) REFERENCES employee(ssn)
TABLE "works_on" CONSTRAINT "works_on_essn_fkey" FOREIGN KEY (essn) REFERENCES employee(ssn) ON UPDATE CASCADE ON DELETE CASCADE

```

suman_33_company=# ALTER table employee add column marital_status varchar(20) ;
ALTER TABLE
suman_33_company=# \d employee

```

Column	Type	Collation	Nullable	Default
ssn	integer		not null	
ename	character varying(100)		not null	
gender	character(1)			
bdate	date			
address	character varying(100)			
salary	numeric(10,2)			0.00
ono	integer			
years_of_experience	integer			
marital_status	character varying(20)			

Indexes:
"employee_pkey" PRIMARY KEY, btree (ssn)

Check constraints:
"employee_gender_check" CHECK (gender = ANY (ARRAY['M'::bpchar, 'F'::bpchar]))

Foreign-key constraints:
"employee_ono_fkey" FOREIGN KEY (ono) REFERENCES office(ono)

Referenced by:
TABLE "dependents" CONSTRAINT "dependents_ssn_fkey" FOREIGN KEY (ssn) REFERENCES employee(ssn) ON UPDATE SET NULL ON DELETE SET NULL
TABLE "pf" CONSTRAINT "fk_pf" FOREIGN KEY (ssn) REFERENCES employee(ssn)
TABLE "works_on" CONSTRAINT "works_on_essn_fkey" FOREIGN KEY (essn) REFERENCES employee(ssn) ON UPDATE CASCADE ON DELETE CASCADE

```

suman_33_company=#

```

1. Insert ten records in the table PF, where at least two records have the Remarks field NULL.

```
INSERT INTO pf (PFID, SSN, PFCategoryName, Amount, Start_date, Remarks)
VALUES
(1, 33, 'Retirement', 5000.00, '2022-01-01', 'Regular contribution'),
(2, 1, 'Medical', 2000.00, '2022-02-15', 'Health insurance'),
(3, 2, 'Education', 3000.00, '2022-03-01', 'Child education fund'),
(4, 3, 'Retirement', 1600.00, '2022-04-01', 'Additional contribution'),
(5, 4, 'Housing', 4000.00, '2022-05-01', NULL),
(6, 33, 'Retirement', 550.00, '2022-06-01', 'Regular contribution'),
(7, 1, 'Medical', 2500.00, '2022-07-01', 'Dental insurance'),
(8, 2, 'Education', 3500.00, '2022-08-01', 'Child tuition'),
(9, 3, 'Retirement', 6500.00, '2022-09-01', 'Additional contribution'),
(10, 4, 'Housing', 4500.00, '2022-10-01', NULL);
```

```
suman_33_company=# select * from pf;
 pfid | ssn | pfcategoryname | amount | start_date | remarks
-----+-----+-----+-----+-----+-----
(0 rows)

suman_33_company=# INSERT INTO pf (PFID, SSN, PFCategoryName, Amount, Start_date, Remarks) VALUES
suman_33_company=# (1, 33, 'Retirement', 500.00, '2022-01-01', 'Regular contribution'),
al, 200.00, '2022-02-15', 'Heasuman_33_company=# (2, 1, 'Medical', 200.00, '2022-02-15', 'Health insurance'),
suman_33_company=# (3, 2, 'Education', 300.00, '2022-03-01', 'Child education fund'),
suman_33_company=# (4, 3, 'Retirement', 600.00, '2022-04-01', 'Additional contribution'),
suman_33_company=# (5, 4, 'Housing', 400.00, '2022-05-01', NULL),
suman_33_company=# (6, 33, 'Retirement', 550.00, '2022-06-01', 'Regular contribution'),
suman_33_company=# (7, 1, 'Medical', 250.00, '2022-07-01', 'Dental insurance'),
suman_33_company=# (8, 2, 'Education', 350.00, '2022-08-01', 'Child tuition'),
suman_33_company=# (9, 3, 'Retirement', 650.00, '2022-09-01', 'Additional contribution'),
suman_33_company=# (10, 4, 'Housing', 450.00, '2022-10-01', NULL);
INSERT 0 10
suman_33_company=# select * from pf;
 pfid | ssn | pfcategoryname | amount | start_date | remarks
-----+-----+-----+-----+-----+-----
 1 | 33 | Retirement | 500.00 | 2022-01-01 | Regular contribution
 2 | 1 | Medical | 200.00 | 2022-02-15 | Health insurance
 3 | 2 | Education | 300.00 | 2022-03-01 | Child education fund
 4 | 3 | Retirement | 600.00 | 2022-04-01 | Additional contribution
 5 | 4 | Housing | 400.00 | 2022-05-01 |
 6 | 33 | Retirement | 550.00 | 2022-06-01 | Regular contribution
 7 | 1 | Medical | 250.00 | 2022-07-01 | Dental insurance
 8 | 2 | Education | 350.00 | 2022-08-01 | Child tuition
 9 | 3 | Retirement | 650.00 | 2022-09-01 | Additional contribution
10 | 4 | Housing | 450.00 | 2022-10-01 |
(10 rows)

suman_33_company=#
```

1. Select all employees.

```
SELECT * from employee ;
```

```
suman_33_company=# select * from employee;
 ssn | ename | gender | bdate | address | salary | ono | years_of_experience | marital_status
-----+-----+-----+-----+-----+-----+-----+-----+-----
 33 | Suman Paudel | M | 1997-10-22 | Kathmanu, Nepal | 30000.00 | 1 | 3 | Single
 1 | Rekha Thapa | F | 1992-03-22 | Kathmandu, Nepal | 55000.00 | 2 | 5 | Married
 2 | KP Oli | M | 1978-11-08 | Bhaktapur, Nepal | 72000.00 | 3 | 12 | Married
 3 | Puspa Kamal Dahal Pracanda | M | 1990-09-01 | Lalitpur, Nepal | 48000.00 | 4 | 3 | Married
 4 | Rabi Lamichane | M | 1983-04-30 | Chitwan, Nepal | 60000.00 | 4 | 7 | Divorced
(5 rows)

suman_33_company=#
```


1. Select employees having salary greater than 30000 and list the results in descending order of Ename.

2. `SELECT * from employee where salary > 30000 order by ename desc;`

suman_33_company=# select * from employee;

ssn	ename	gender	bdate	address	salary	ono	years_of_experience	marital_status
33	Suman Paudel	M	1997-10-22	Kathmanu, Nepal	30000.00	1	3	Single
1	Rekha Thapa	F	1992-03-22	Kathmandu, Nepal	55000.00	2	5	Married
2	KP Oli	M	1978-11-08	Bhaktapur, Nepal	72000.00	3	12	Married
3	Puspa Kamal Dahal Pracanda	M	1990-09-01	Lalitpur, Nepal	48000.00	4	3	Married
4	Rabi Lamichane	M	1983-04-30	Chitwan, Nepal	60000.00	4	7	Divorced

(5 rows)

suman_33_company=# `SELECT * from employee where salary > 30000 order by ename desc;`

ssn	ename	gender	bdate	address	salary	ono	years_of_experience	marital_status
1	Rekha Thapa	F	1992-03-22	Kathmandu, Nepal	55000.00	2	5	Married
4	Rabi Lamichane	M	1983-04-30	Chitwan, Nepal	60000.00	4	7	Divorced
3	Puspa Kamal Dahal Pracanda	M	1990-09-01	Lalitpur, Nepal	48000.00	4	3	Married
2	KP Oli	M	1978-11-08	Bhaktapur, Nepal	72000.00	3	12	Married

(4 rows)

suman_33_company=#

- 3.
- 4.
5. Retrieve the tuples from project table. Sort the tuples on the basis of Pname.

6. `SELECT * from project order by pname;`

- 7.

suman_33_company=# `SELECT * from project order by pname;`

pnumber	pname	plocation	onumber
3	Project Butwal	Butwal	3
4	Project Chitwan	Chitwan	4
5	Project Dhangadi	Dhangadi	5
2	Project Kathmandu	Kathmandu	2
66	Suman_ProjMDS	Kathmandu	1

(5 rows)

suman_33_company=#

- 8.
- 9.
10. Select the employees having salary greater than 30000 and years of experience less than 3 years.

11. `SELECT * from employee WHERE salary > 30000 and years_of_experience < 3;`

- 12.

suman_33_company=# select * from employee;

ssn	ename	gender	bdate	address	salary	ono	years_of_experience	marital_status
33	Suman Paudel	M	1997-10-22	Kathmanu, Nepal	30000.00	1	3	Single
1	Rekha Thapa	F	1992-03-22	Kathmandu, Nepal	55000.00	2	5	Married
2	KP Oli	M	1978-11-08	Bhaktapur, Nepal	72000.00	3	2	Married
3	Puspa Kamal Dahal Pracanda	M	1990-09-01	Lalitpur, Nepal	48000.00	4	3	Married
4	Rabi Lamichane	M	1983-04-30	Chitwan, Nepal	60000.00	4	7	Divorced

(5 rows)

suman_33_company=# `SELECT * from employee WHERE salary > 30000 and years_of_experience < 3;`

ssn	ename	gender	bdate	address	salary	ono	years_of_experience	marital_status
2	KP Oli	M	1978-11-08	Bhaktapur, Nepal	72000.00	3	2	Married

(1 row)

suman_33_company=#

- 13.
- 14.
15. Select the name, address, and salary of employees having salary greater than 30000 or years of experience less than 3 years.

```
SELECT ename, address, salary from employee WHERE salary > 30000 OR years_of_experience < 3;
```

```
suman_33_company=# select * from employee;
 ssn |      ename      | gender |   bdate   |      address      | salary | ono | years_of_experience | marital_status
-----+-----+-----+-----+-----+-----+----+-----+-----
 33 | Suman Paudel    | M      | 1997-10-22 | Kathmanu, Nepal   | 30000.00 | 1 | 3 | Single
 1  | Rekha Thapa     | F      | 1992-03-22 | Kathmandu, Nepal  | 55000.00 | 2 | 5 | Married
 2  | KP Oli          | M      | 1978-11-08 | Bhaktapur, Nepal  | 72000.00 | 3 | 2 | Married
 3  | Puspa Kamal Dahal Pracanda | M      | 1990-09-01 | Lalitpur, Nepal   | 48000.00 | 4 | 3 | Married
 4  | Rabi Lamichane  | M      | 1983-04-30 | Chitwan, Nepal    | 60000.00 | 4 | 7 | Divorced
(5 rows)

suman_33_company=# SELECT ename, address, salary from employee WHERE salary > 30000 OR years_of_experience < 3;
 ename      |      address      | salary
-----+-----+-----
 Rekha Thapa | Kathmandu, Nepal  | 55000.00
 KP Oli      | Bhaktapur, Nepal  | 72000.00
 Puspa Kamal Dahal Pracanda | Lalitpur, Nepal   | 48000.00
 Rabi Lamichane | Chitwan, Nepal    | 60000.00
(4 rows)

suman_33_company=# H
```

16. Select the all dependents.

17.

```
select * from dependents;
```

18.

```
suman_33_company=# select * from dependents;
 did |      dname      | dage | ssn |      drelation
-----+-----+-----+----+-----
 1  | Pushpa Panta Jaisi | 13 |   | Mother
 2  | Krishna Prasad Jaishi | 13 |   | Father
 3  | Silu Poudel      | 12 |   | Sister
 4  | Sujita Sharma    | 9  |   | Cousin Sister
 5  | Prabin Adhikari  | 14 |   | Cousin Brother
(5 rows)

suman_33_company=# H
```

19.

20.

21. Select the name and age of the dependents having age between 5 to 60.

22.

23.

```
select dname, dage from dependents where dage between 5 and 60;
```

24.

```
suman_33_company=# select * from dependents;
```

did	dname	dage	ssn	drelation
1	Pushpa Panta Jaisi	13		Mother
2	Krishna Prasad Jaishi	13		Father
3	Silu Poudel	12		Sister
4	Sujita Sharma	9		Cousin Sister
5	Prabin Adhikari	14		Cousin Brother

(5 rows)

```
suman_33_company=# select dname, dage from dependents where dage between 5 and 60;
```

dname	dage
Pushpa Panta Jaisi	13
Krishna Prasad Jaishi	13
Silu Poudel	12
Sujita Sharma	9
Prabin Adhikari	14

(5 rows)

```
suman_33_company=#
```

25.

26. Select the offices having office name like "%Nt%" as substring.

27.

```
select * from office WHERE oname like '%Nt%';
```

```
suman_33_company=# select * from office;
```

onumber	oname	country
1	Suman_Office_33	Nepal
3	Prabhat Ale	USA
4	Anish Thapaliya	India
5	Gaurav Pandey	Japan
2	Ntc_Suman_33	Nepal

(5 rows)

```
suman_33_company=# select oname from office WHERE oname like '%Nt%';
```

oname
Ntc_Suman_33

(1 row)

```
suman_33_company=#
```

28.

Select the offices having office number in (1, 2, 3).

```
select onumber from office where onumber in (1,2,3);
```

```

suman_33_company=# select * from office ;
 onumber |      oname      | country
-----+-----+-----
        1 | Suman_Office_33 | Nepal
        3 | Prabhat Ale     | USA
        4 | Anish Thapaliya | India
        5 | Gaurav Pandey   | Japan
        2 | Ntc_Suman_33    | Nepal
(5 rows)

suman_33_company=# select onumber from office where onumber in (1,2,3);
 onumber
-----
        1
        3
        2
(3 rows)

suman_33_company=# |

```

29. Select the records from PF table where remarks is NULL

```
select * from pf WHERE remarks is null;
```

30. Select PF category name, amount, start date and remarks from PF where remarks is not NULL

31.

32.

```
SELECT pfcategoryname, amount, start date, remarks from pf where remarks is not null;
```

33.

```

suman_33_company=# select * from pf;
 pfid | ssn | pfcategoryname | amount | start_date | remarks
-----+-----+-----+-----+-----+-----
  1   | 33  | Retirement     | 5000.00 | 2022-01-01 | Regular contribution
  2   | 1   | Medical        | 2000.00 | 2022-02-15 | Health insurance
  3   | 2   | Education      | 3000.00 | 2022-03-01 | Child education fund
  4   | 3   | Retirement     | 1600.00 | 2022-04-01 | Additional contribution
  5   | 4   | Housing        | 4000.00 | 2022-05-01 |
  6   | 33  | Retirement     | 550.00  | 2022-06-01 | Regular contribution
  7   | 1   | Medical        | 2500.00 | 2022-07-01 | Dental insurance
  8   | 2   | Education      | 3500.00 | 2022-08-01 | Child tuition
  9   | 3   | Retirement     | 6500.00 | 2022-09-01 | Additional contribution
 10   | 4   | Housing        | 4500.00 | 2022-10-01 |
(10 rows)

suman_33_company=# SELECT pfcategoryname from pf where amount != 3000;
pfcategoryname
-----
Retirement
Medical
Retirement
Housing
Retirement
Medical
Education
Retirement
Housing
(9 rows)

suman_33_company=# SELECT pfcategoryname from pf where amount != 3000;

```

34.

35.

36. Select the five records from PF table using LIMIT Clause.

37. `select * from pf limit 5;`

38.

```

suman_33_company=# select * from pf limit 5;
 pfid | ssn | pfcategoryname | amount | start_date | remarks
-----+-----+-----+-----+-----+-----
  1   | 33  | Retirement     | 500.00 | 2022-01-01 | Regular contribution
  2   | 1   | Medical        | 200.00 | 2022-02-15 | Health insurance
  3   | 2   | Education      | 300.00 | 2022-03-01 | Child education fund
  4   | 3   | Retirement     | 600.00 | 2022-04-01 | Additional contribution
  5   | 4   | Housing        | 400.00 | 2022-05-01 |
(5 rows)

suman_33_company=#

```

39.

40.

41. Select the category name of PF where amount is not equal to 3000.

42. `SELECT pfcategoryname from pf where amount != 3000;`


```
suman_33_company=# select * from pf;
```

pfid	ssn	pfcategoryname	amount	start_date	remarks
1	33	Retirement	5000.00	2022-01-01	Regular contribution
2	1	Medical	2000.00	2022-02-15	Health insurance
3	2	Education	3000.00	2022-03-01	Child education fund
4	3	Retirement	1600.00	2022-04-01	Additional contribution
5	4	Housing	4000.00	2022-05-01	
6	33	Retirement	550.00	2022-06-01	Regular contribution
7	1	Medical	2500.00	2022-07-01	Dental insurance
8	2	Education	3500.00	2022-08-01	Child tuition
9	3	Retirement	6500.00	2022-09-01	Additional contribution
10	4	Housing	4500.00	2022-10-01	

(10 rows)

```
suman_33_company=# SELECT pfcategoryname from pf where amount ≠ 3000;
pfcategoryname
```

```
Retirement
Medical
Retirement
Housing
Retirement
Medical
Education
Retirement
Housing
(9 rows)
```

```
suman_33_company=# SELECT pfcategoryname from pf where amount ≠ 3000;
```

43.

44.

45. Select all employees who works on project no 2.

46.

```
47. select e.ename from employee e inner join works_on w on e.ssn = w.essn
inner JOIN project p on p.pnumber = w.pno where p.pnumber=2;
```

48.

```
suman_33_company=# select * from employee;
```

ssn	ename	gender	bdate	address	salary	ono	years_of_experience
33	Suman Paudel	M	1997-10-22	Kathmanu, Nepal	30000.00	1	3
1	Rekha Thapa	F	1992-03-22	Kathmandu, Nepal	55000.00	2	5
2	KP Oli	M	1978-11-08	Bhaktapur, Nepal	72000.00	3	12
3	Puspa Kamal Dahal Prachanda	M	1990-09-01	Lalitpur, Nepal	48000.00	4	3
4	Rabi Lamichane	M	1983-04-30	Chitwan, Nepal	60000.00	4	7

(5 rows)

```
suman_33_company=# select * from works_on;
```

essn	pno
33	66
1	2
2	3
3	4
4	5

(5 rows)

```
suman_33_company=# select * from project;
```

pnumber	pname	plocation	onumber
66	Suman_ProjMDS	Kathmandu	1
2	Project Kathmandu	Kathmandu	2
3	Project Butwal	Butwal	3
4	Project Chitwan	Chitwan	4
5	Project Dhangadi	Dhangadi	5

(5 rows)

```
suman_33_company=# select e.ename from employee e inner join works_on w on e.ssn = w.essn inner JOIN project p on p.pnumber = w.pno where p.pnumber=2;
```

Rekha Thapa
(1 row)

```
suman_33_company=#
```

49.