# **Suman Paudel (33)**

# **Assignment II**

#### **Lab 2:**

# Prepare Lab Sheet of MYSQL Statements for following.

1. 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');
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 |
2 | Suman Paudel |
3 | Prabhat Ale |
                                         Nepal
                                         USA
         4 | Anish Thapaliya |
                                        India
                                        Japan
         5 | Gaurav Pandey
(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);
```

### **Output:**

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

#### For Project Table:

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

# For Works\_on Table:

```
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
                     (1, 2),
suman_33_company-#
suman_33_company-#
                     (2, 3),
                   (3, 4),
suman_33_company-#
                     (4, 5);
suman_33_company-#
INSERT 0 4
suman_33_company=# select * from works_on;
 essn | pno
   33 I
         66
    1
          2
    2 |
          3
    3
          4
    4 1
          5
(5 rows)
suman_33_company=#
```

### For Employee Table:

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

2. In the database Yourname\_Roll\_COMPANY in LAB-1, Create a table PF(<u>PFID</u>, 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
           office
 public
                                  postgres
                         table
 public
           project
                         table
                                  postgres
 public |
           works_on
                         table
                                  postgres
(5 rows)
suman_33_company=# create table PF(
suman_33_company(# PFID int primary key,
SN intsuman_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(#
suman_33_company(# );
CREATE TABLE
suman_33_company=# \dt
            List of relations
 Schema |
              Name
                       Type
                                   Owner
 public
           dependents
                         table
                                  postgres
           employee
                         table
 public
                                  postgres
                         table |
 public |
          office
                                  postgres
                         table | postgres
 public | pf
 public | project
                         table | postgres
 public |
          works_on
                         table |
                                 postgres
(6 rows)
suman_33_company=#
```

3. 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.

### **SQL Script:**

```
ALTER table employee add column marital_status varchar(20);
```

### **Updating Part:**

```
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;
```

# Alter Part

suman_33_company=# \d	employee; Table "public.emplo	wee"					
Column	Туре	Collation	Nullable	Default			
ssn ename gender bdate	integer character varying(100) character(1) date		not null not null				
address salary ono years_of_experience	character varying(100) numeric(10,2) integer integer			   0.00 			
Check constraints:	RIMARY KEY, btree (ssn)						
Foreign-key constrain "employee_ono_fkey Referenced by:	y" FOREIGN KEY (ono) REFE	RENCES office	e(onumber)				
TABLE "pf" CONSTR	' CONSTRAINT "dependents_: AINT "fk_pf" FOREIGN KEY ( CONSTRAINT "works_on_essn	(ssn) RÉFEREI	NCES employ	ee(ssn)			
suman_33_company=# AL <sup>*</sup> ALTER TABLE	TER table employee add co	olumn marita	l_status va	rchar(20) ;			
suman_33_company=# \d	employee Table "public.emplo	wee!!					
Column	Type	Collation	Nullable	Default			
ssn ename gender bdate	integer character varying(100) character(1) date		not null   not null 				
address salary ono years_of_experience	character varying(100) numeric(10,2) integer			   0.00 			
marital_status Indexes: "employee_pkey" Pl Check constraints:	character varying(20)						
Foreign-key constrain	check" CHECK (gender = AN ts: y" FOREIGN KEY (ono) REFER			F'::bpchar]))			
TABLE "dependents TABLE "pf" CONSTR	' CONSTRAINT "dependents_s AINT "fk_pf" FOREIGN KEY ( CONSTRAINT "works_on_essn_	(ssn) REFEREI	NCES employ	ee(ssn)			
suman_33_company=#							

# **Updating Part**

suman_	_33_company=# select * from e	mployee;						
ssn	ename	gender	bdate	address	salary	ono	years_of_experience	marital_status
33	Suman Paudel	м			1 30000.00	1 1	† 3	
1	Rekha Thapa	Ë	1992-03-22	Kathmandu, Nepal	55000.00	j - 2	i 5	
2	KP Oli	İМ	1978-11-08	Bhaktapur, Nepal	72000.00		j 12	i
3	Puspa Kamal Dahal Pracanda	İМ	1990-09-01	Lalitpur, Nepal	48000.00	j 4	] 3	il
4	Rabi Lamichane	į M	1983-04-30	Chitwan, Nepal	60000.00	j 4	j 7	il
(5 rov	ıs)							
	.33_company=# update employee	set mari	tal_status =	'Single' WHERE ssn :	= 33;			
UPDATE								
	_33_company=# update employee	set mari	tal_status =	'Married' WHERE ssn	= 1;			
UPDATE								
	33_company=# update employee	set mari	tal_status =	'Married' WHERE ssn	= 2;			
UPDATE								
suman_ UPDATE	_33_company=# update employee	set mari	tal_status =	'Married' WHERE ssn	= 3;			
	: 1 .33_company=# update employee			Industrial MUEDE and				
Suman_ UPDATE		Set mari	tat_status =	DIVOLCED MUEKE SS	n = 4;			
	. 1 33_company—# select * from en							
ssn	ename	gender	bdate	address	salary	ono	years_of_experience	marital_status
33	Suman Paudel	<del>! — — —</del> I м		+	1 30000.00	† <sub>1</sub>	<del>                                     </del>	Single
1	Rekha Thapa	"   F	1992-03-22	Kathmandu, Nepal	55000.00	1 2	5	Married
2	KP Oli	i m	1978-11-08		72000.00			
3	Puspa Kamal Dahal Pracanda	М	1990-09-01	Lalitpur, Nepal	48000.00	1 4	3	Married
4	Rabi Lamichane	i M	1983-04-30	Chitwan, Nepal	60000.00	4		Divorced
(5 rov				,,				
	<del>(2000)</del>							
suman_	33_company=#							
Name and Address of the Owner, where the Owner, which is the Own								

4. Insert ten records in the table PF, where at least two records have the Remarks field NULL. **SQL Script:** 

```
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);
```

## **SQL Script:**

```
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
 INSERT 0 10
 suman_33_company=# select * from pf;
   pfid | ssn | pfcategoryname | amount | start_date |
                    33
                              Retirement
                                                                 500.00 I
                                                                                   2022-01-01 | Regular contribution
                              Medical
                                                                 200.00
                                                                                   2022-02-15
                                                                                                              Health insurance
                      2
          3
                              Education
                                                                 300.00
                                                                                   2022-03-01
                                                                                                             Child education fund
                                                                                   2022-04-01
          4
                                                                                                              Additional contribution
                     3
                              Retirement
                                                                 600.00
         5
                    4
                              Housing
                                                                 400.00
                                                                                   2022-05-01
                              Retirement
                                                                 550.00
                                                                                   2022-06-01
                                                                                                              Regular contribution
                    33
          6
                                                                250.00 |
350.00 |
          7
                              Medical
                                                                                   2022-07-01
                                                                                                              Dental insurance
          8
                              Education
                                                                 350.00
                                                                                   2022-08-01
                                                                                                              Child tuition
                              Retirement
                                                                 650.00
                                                                                   2022-09-01
                                                                                                              Additional contribution
       10
                             Housing
                                                                450.00 I
                      4
                                                                                   2022-10-01
 (10 rows)
 suman_33_company=#
```

5. Select all employees.

# **SQL Script:**

```
SELECT * from employee;
```

# **Output:**



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

# **SQL Script:**

```
SELECT * from \frac{\text{employee}}{\text{opployee}} where \frac{\text{salary}}{\text{salary}} > 30000 order by \frac{\text{ename}}{\text{opployee}} desc;
```

# **Output:**

suman_	33_company=# select * from e							
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 row	ıs)							
cuman	_33_company=# SELECT * from e	mplovee w	here salary >	38888 order by enai	me desc:			
ssn	ename	gender		address	salary	Long	years_of_experience	marrital status
2311	Challe	, genuer	) Duace	uddress	Jacary	0.10	- years_or_experience	marreac_scacus
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 İ	Puspa Kamal Dahal Pracanda	M	1990-09-01	Lalitpur, Nepal	48000.00	4	3	Married
		l M	1978-11-08	Bhaktapur, Nepal	72000.00	<b>i</b> 3 i	12	Married
2	KP Oli	l u						
		, n	1 1570 11 00	, briancapaz , nepac	,			
		. "	1 1370 11 00	, Diantapaz, inspar	,			
(4 ro		ı n	1570 11 00	, Sharrapar, hepar				
(4 ro	is)	, "	1 1370 11 00	, Diancapaz, inspar	,			
(4 ro	is)	. "	1370 11 00	, zmancapaz, nopaz				

7. Retrieve the tuples from project table. Sort the tuples on the basis of Pname. **SQL Script:** 

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

# **Output:**

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
rows)	Suman_Projebs	Nathillandu	

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

# **SQL Script:**

```
SELECT * from \frac{\text{employee}}{\text{of experience}} WHERE \frac{\text{salary}}{\text{salary}} > 30000 and \frac{\text{years of experience}}{\text{of experience}} < 3;
```

# **Output:**

	_33_company=# sel	ect * from er			1 -0	1 - 1			1 0 1 1 1
ssn	ename		gender	bdate	address	salary	ono	years_of_experienc	e   marital_status
33	Suman Paudel		М	1997-10-22	Kathmanu, Nepal	30000.00	1 1		3   Single
1	Rekha Thapa		F	1992-03-22	Kathmandu, Nepal	55000.00	2		5   Married
2	KP Oli		М	1978-11-08	Bhaktapur, Nepal	72000.00	3		2   Married
3	Puspa Kamal Dah	al Pracanda	М	1990-09-01	Lalitpur, Nepal	48000.00	4		3   Married
4	Rabi Lamichane		М	1983-04-30	Chitwan, Nepal	60000.00	4		7   Divorced
(5 row	ıs)								
suman_	_33_company=# SEL	ECT * from er	ıployee W	HERE salary >	30000 and years_c	of_experience	< 3;		
ssn	ename   gender	bdate	a	ddress	salary   ono	years_of_exp	erienc	marital_status	
						<u> </u>		<del></del>	
	KP Oli   M	1978-11-08	3   Bhakta	apur, Nepal	72000.00   3		:	2   Married	
(1 row	r)								
suman_	_33_company=#								

9. Select the name, address, and salary of employees having salary greater than 30000 or years of experience less than 3 years.

# **SQL Script:**

```
SELECT <u>ename</u>, <u>address</u>, <u>salary</u> from <u>employee</u> WHERE <u>salary</u> > 30000 OR <u>years of experience</u> < 3;
```

	gender	bdate	address	salary	ono	years_of_experience	marital_status
33   Suman Paudel	M   1	997-10-22	Kathmanu, Nepal	30000.00	1	3	Single
1   Rekha Thapa	F   1	992-03-22	Kathmandu, Nepal	55000.00	2	5	Married
2 KP Oli	M   1	978-11-08	Bhaktapur, Nepal	72000.00 I	3 İ	2	Married
3   Puspa Kamal Dahal Prac	anda İM İ1	990-09-01	Lalitpur, Nepal	i 48000.00 i	4 i	3	Married
4   Rabi Lamichane		983-04-30	Chitwan, Nepal	i 60000.00 i	4 i	7	Divorced
uman_33_company=# SELECT ena ename	me, address, sala address	ry from emp   salary	oloyee WHERE salary	> 30000 OR	years	_of_experience < 3;	
	Kathmandu, Nepal	-+	<del></del> 9				
Rekha Thapa							
Rekha Thapa KP Oli	Bhaktapur, Nepal	1 72000.00	9				
(P Oli	Bhaktapur, Nepal						
	Bhaktapur, Nepal Lalitpur, Nepal Chitwan, Nepal	72000.00   48000.00   60000.00	9				

10. Select the all dependents.

# **SQL Script:**

```
select * from <u>dependents</u>;
```

# **Output:**

1   Pushpa Panta Jaisi	13	i i	Mother
2   Krishna Prasad Jaishi	13	i i	Father
3   Silu Poudel	12	i i	Sister
4   Sujita Sharma	9	l i	Cousin Sister
5   Prabin Adhikari	14	1 1	Cousin Brother
rows) man_33_company=# H			

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

# **SQL Script:**

```
select <u>dname</u>, <u>dage</u> from <u>dependents</u> where <u>dage</u> between 5 and 60;
```

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

12. Select the offices having office name like "%Nt%" as substring. **SQL Script:** 

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

### **Output:**

```
suman_33_company=# select * from office;
onumber |
                            country
                oname
       1 | Suman_Office_33
                             Nepal
        | Prabhat Ale
                             USA
       3
       4 | Anish Thapaliya
                             India
        | 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=#
```

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

# **SQL Script:**

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

```
suman_33_company=# select * from office ;
onumber |
                            country
                oname
           Suman_Office_33
                             Nepal
       1
       3
          Prabhat Ale
                             USA
          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=#
```

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

## **SQL Script:**

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

## **Output:**

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

### **SQL Script:**

```
SELECT <u>pfcategoryname</u>, <u>amount</u>, <u>start date, remarks</u> from <u>pf</u> where <u>remarks</u> is not null;
```

```
suman_33_company=# select * from pf;
pfid | ssn | pfcategoryname | amount
                                        | start_date
                                                               remarks
              Retirement
                               5000.00
                                         2022-01-01
                                                       Regular contribution
             Medical
                               2000.00
                                         2022-02-15
   3
        2
             Education
                               3000.00 | 2022-03-01 |
                                                       Child education fund
                               1600.00
                                                       Additional contribution
              Retirement
                                         2022-04-01
                               4000.00
   5
         4
              Housing
                                         2022-05-01
         33
              Retirement
                                550.00
                                         2022-06-01
                                                       Regular contribution
    7
              Medical
                               2500.00
                                         2022-07-01
                                                       Dental insurance
         1
                                         2022-08-01
                                                       Child tuition
   8
          2
              Education
                               3500.00
    9
              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 \neq 3000;
pfcategoryname
Retirement
Medical
Retirement
Housing
Retirement
Medical
Education
Retirement
Housing
(9 rows)
suman_33_company=# SELECT pfcategoryname from pf where amount ≠ 3000;
```

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

#### **SQL Script:**

```
select * from pf limit 5;
Output:
```

```
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
              Medical
                                                       Health insurance
          1
                                200.00
                                         2022-02-15
    3
          2
                                         2022-03-01
                                                       Child education fund
              Education
                                300.00
    4
          3
              Retirement
                                600.00
                                         2022-04-01
                                                       Additional contribution
    5
          4
              Housing
                                400.00
                                         2022-05-01
(5 rows)
suman_33_company=#
```

17. Select the category name of PF where amount is not equal to 3000. **SQL Script:** 

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

```
suman_33_company=# select * from pf;
pfid | ssn | pfcategoryname | amount
                                       | start_date |
                                                              remarks
         33
             Retirement
                               5000.00
                                         2022-01-01
                                                      Regular contribution
                                                      Health insurance
             Medical
                               2000.00
                                         2022-02-15
   3
        2
             Education
                               3000.00 | 2022-03-01 |
                                                      Child education fund
              Retirement
                               1600.00
                                         2022-04-01
                                                      Additional contribution
   5
             Housing
                               4000.00
                                         2022-05-01
                                550.00
         33
             Retirement
                                         2022-06-01
                                                      Regular contribution
    7
              Medical
                               2500.00
                                         2022-07-01
                                                      Dental insurance
   8
          2
                               3500.00
                                         2022-08-01
                                                      Child tuition
             Education
                                         2022-09-01
   9
          3
                                                      Additional contribution
              Retirement
                               6500.00
   10
             Housing
                               4500.00 | 2022-10-01
(10 rows)
suman_33_company=# SELECT pfcategoryname from pf where amount \neq 3000;
pfcategoryname
Retirement
Medical
Retirement
Housing
Retirement
Medical
Education
Retirement
Housing
(9 rows)
suman_33_company=# SELECT pfcategoryname from pf where amount ≠ 3000;
```

18. Select all employees who works on project no 2. **SQL Script:** 

```
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;
```

#### **Output:**

```
bdate
                                                                                                             address
                                                                              1997-10-22
1992-03-22
1978-11-08
1990-09-01
1983-04-30
                                                                                                    Kathmanu, Nepal
Kathmandu, Nepal
Bhaktapur, Nepal
Lalitpur, Nepal
Chitwan, Nepal
           Suman Paudel
Rekha Thapa
KP Oli
                                                                                                                                       30000.00
55000.00
                                                              M F M M
                                                                                                                                       72000.00
48000.00
           Puspa Kamal Dahal Pracanda
Rabi Lamichane
 suman_33_company=# select * from works_on;
essn | pno
               66
2
3
     33
(5 rows)
 suman_33_company=# select * from project;
pnumber | pname | plocation | onumber
                Suman_ProjMDS Kathmandu
| Project Kathmandu Kathmandu
| Project Butwal Butwal
| Project Chitwan Chitman
| Project Dhangadi | Dhangadi
(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=#
```