

# WEEK4 -

## SQL Constraints , Views , Truncate , delete and update operations.

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### Problem Statement:

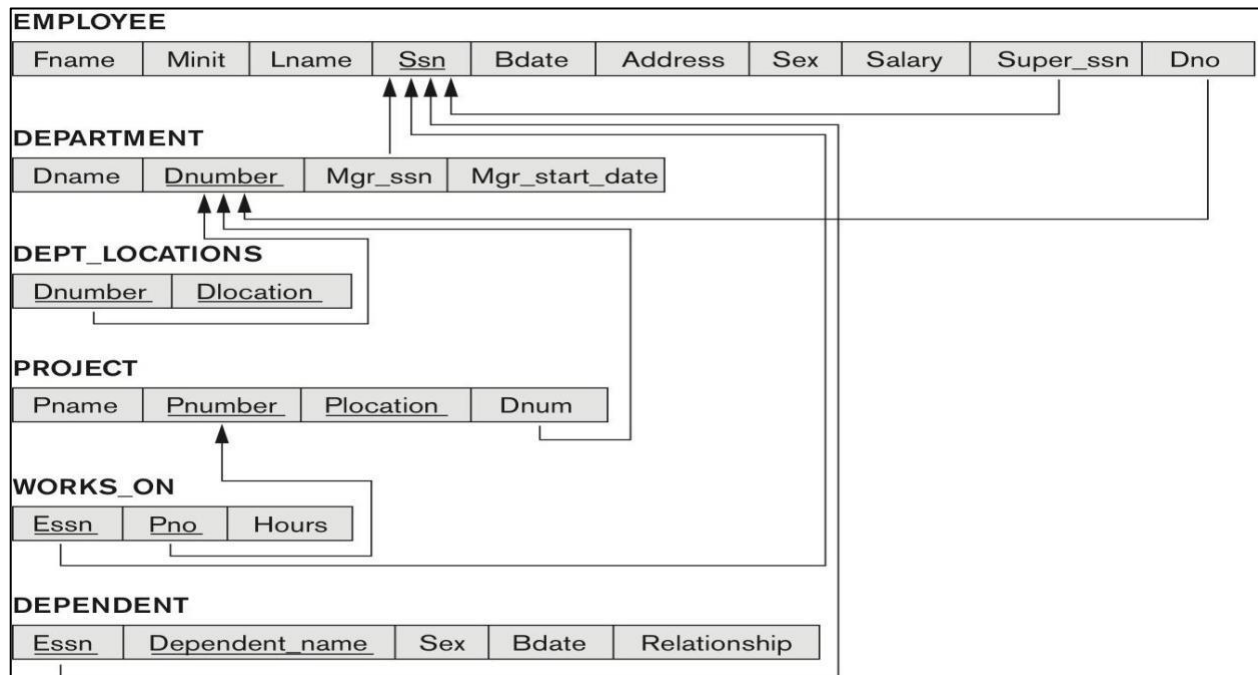
1. Create tables for the below mentioned Relational design and add check, default, not null and unique constraints. 10 marks

PK and FK constraints for all applicable Relations

For Fname , Lname in employee add not null constraints and relationship in dependent should be not null and by default add parent as the relationship value

Add default constraint for project name Dname and  
dnumber should be unique

Add check constraints to BDATE in employee and dependent table ( born before 1985)



```

new_493=# create table employee_493(fname varchar(20) NOT NULL, Minit varchar(20), Lname varchar(20) NOT NULL, Ssn int, Bdate date, Address varchar(70) NOT NULL, Sex va
rchar(10), Salary int NOT NULL, Super_ssn int, Dno int);
CREATE TABLE
new_493=# alter table employee add constraint pk1 primary key (Ssn);
ERROR: relation "employee" does not exist
new_493=# alter table employee_493 add constraint fk1 foreign key(Super_ssn) references employee_493(Ssn);
ERROR: there is no unique constraint matching given keys for referenced table "employee_493"
new_493=# alter table employee_493 add constraint pk1 primary key (Ssn);
ALTER TABLE
new_493=# alter table employee_493 add constraint fk1 foreign key(Super_ssn) references employee_493(Ssn);
ALTER TABLE
new_493=# \d employee_493
          Table "public.employee_493"
   Column |          Type          | Collation | Nullable | Default
-----|-----|-----|-----|-----
 fname   | character varying(20) |           | not null |
 minit   | character varying(20) |           |          |
 lname   | character varying(20) |           | not null |
 ssn     | integer               |           | not null |
 bdate   | date                  |           |          |
 address | character varying(70) |           | not null |
 sex     | character varying(10) |           |          |
 salary  | integer               |           | not null |
 super_ssn | integer              |           |          |
 dno     | integer               |           |          |
Indexes:
    "pk1" PRIMARY KEY, btree (ssn)
Foreign-key constraints:
    "fk1" FOREIGN KEY (super_ssn) REFERENCES employee_493(ssn)
Referenced by:
    TABLE "employee_493" CONSTRAINT "fk1" FOREIGN KEY (super_ssn) REFERENCES employee_493(ssn)

```

Creating department, its primary and foreign key

```

new_493=# create table department_493(dname varchar(20) NOT NULL UNIQUE, Dnumber int, Mgr_ssn int NOT NULL, Mgr_start_date date NOT
CREATE TABLE
new_493=# alter table department_493 add constraint pk2 primary key (Dnumber);
ALTER TABLE
new_493=# alter table department add constraint fk2 foreign key(Mgr_ssn) references employee_293(Ssn);
ERROR:  relation "department" does not exist
new_493=# alter table department add constraint fk2 foreign key(Mgr_ssn) references employee_293(Ssn);
ERROR:  relation "department" does not exist
new_493=# alter table department add constraint fk2 foreign key(Mgr_ssn) references employee_293(Ssn);
ERROR:  relation "department" does not exist
new_493=# alter table department add constraint fk2 foreign key(Mgr_ssn) references employee_293(Ssn);
ERROR:  relation "department" does not exist
new_493=# alter table department_493 add constraint fk2 foreign key(Mgr_ssn) references employee_493(Ssn);
ERROR:  syntax error at or near "forign"
LINE 1: alter table department_493 add constraint fk2 forign key(Mgr...
               ^
new_493=# alter table department_493 add constraint fk2 foreign key(Mgr_ssn) references employee_493(Ssn);
ALTER TABLE
new_493=# \d department_493
          Table "public.department_493"
   Column   |      Type       | Collation | Nullable | Default
-----+-----+-----+-----+-----
 dname      | character varying(20) |           | not null |
 dnumber    | integer          |           | not null |
 mgr_ssn    | integer          |           | not null |
 mgr_start_date | date            |           | not null |
Indexes:
    "pk2" PRIMARY KEY, btree (dnumber)
    "department_493_dname_key" UNIQUE CONSTRAINT, btree (dname)
Foreign-key constraints:
    "fk2" FOREIGN KEY (mgr_ssn) REFERENCES employee_493(ssn)

```

## Creating dept\_location and its PK and FK's

```

new_493=# create table dept_locations_493(dnumber int, dlocation varchar(20) UNIQUE);
CREATE TABLE
new_493=# alter table dept_locations_493 add constraint pk3 primary key (dnumber);
ALTER TABLE
new_493=# alter table dept_locations_493 add constraint fk3 foreign key(dnumber) references department_293(Dnumber);
ERROR:  relation "department_293" does not exist
new_493=# alter table dept_locations_493 add constraint fk3 foreign key(dnumber) references department_493(Dnumber);
ALTER TABLE
new_493=# \d dept_locations_493
          Table "public.dept_locations_493"
   Column   |      Type       | Collation | Nullable | Default
-----+-----+-----+-----+-----
 dnumber    | integer          |           | not null |
 dlocation  | character varying(20) |           |          |
Indexes:
    "pk3" PRIMARY KEY, btree (dnumber)
    "dept_locations_493_dlocation_key" UNIQUE CONSTRAINT, btree (dlocation)
Foreign-key constraints:
    "fk3" FOREIGN KEY (dnumber) REFERENCES department_493(dnumber)

```

## Creating a project and its PK's and FK's, **NOT NULL** constraint is added

```

new_493=# create table project_493(pname varchar(20) NOT NULL, Pnumber int, Plocation varchar(20), Dnum int);
CREATE TABLE
new_493=# alter table project_493 add constraint pk4 primary key (Pnumber);
ALTER TABLE
new_493=# alter table project_493 add constraint uk1 unique(Plocation);
ALTER TABLE
new_493=# alter table project_493 add constraint fk3 foreign key(Dnum) references department_493(dnumber);
ALTER TABLE
new_493=# \d project_493
          Table "public.project_493"
   Column   |      Type       | Collation | Nullable | Default
-----+-----+-----+-----+-----
 pname      | character varying(20) |           | not null |
 pnumber    | integer          |           | not null |
 plocation  | character varying(20) |           |          |
 dnum       | integer          |           |          |
Indexes:
    "pk4" PRIMARY KEY, btree (pnumber)
    "uk1" UNIQUE CONSTRAINT, btree (plocation)
Foreign-key constraints:
    "fk3" FOREIGN KEY (dnum) REFERENCES department_493(dnumber)

```

## Creating table works\_on and its PK's and FK's

```

new_493=# create table works_on_493(essn int NOT NULL, Pno int NOT NULL, Hours int, primary key(essn,Pno));
CREATE TABLE
new_493=# alter table works_on_493 add constraint fk5 foreign key(essn) references employee(Ssn);
ERROR:  relation "employee" does not exist
new_493=# alter table works_on_493 add constraint fk5 foreign key(essn) references employee_493(Ssn);
ALTER TABLE
new_493=# alter table works_on_493 add constraint fk6 foreign key(Pno) references project_493(Pnumber);
ALTER TABLE
new_493=# \d works_on_493
          Table "public.works_on_493"
  Column | Type          | Collation | Nullable | Default
-----+-----+-----+-----+-----
  essn   | integer       |           | not null |
  pno    | integer       |           | not null |
  hours  | integer       |           |          |
Indexes:
    "works_on_493_pkey" PRIMARY KEY, btree (essn, pno)
Foreign-key constraints:
    "fk5" FOREIGN KEY (essn) REFERENCES employee_493(ssn)
    "fk6" FOREIGN KEY (pno) REFERENCES project_493(pnumber)

```

## Creating a dependent table and its PK's and FK's

```

new_493=# create table dependent_493(essn int, department_name varchar(20), sex varchar(10), bdate date, relationship varchar(20) NOT NULL,Primary key(essn, department_
name), foreign key (essn) references employee_493(ssn));
CREATE TABLE
new_493=# \d dependent_493
          Table "public.dependent_493"
  Column          | Type          | Collation | Nullable | Default
-----+-----+-----+-----+-----
  essn             | integer       |           | not null |
  department_name  | character varying(20) |           | not null |
  sex              | character varying(10) |           |          |
  bdate            | date          |           |          |
  relationship      | character varying(20) |           | not null |
Indexes:
    "dependent_493_pkey" PRIMARY KEY, btree (essn, department_name)
Foreign-key constraints:
    "dependent_493_essn_fkey" FOREIGN KEY (essn) REFERENCES employee_493(ssn)

```

Adding **default-parent** as the relationship value, default constraint for project name, and **unique constraints**- dname and number should be unique

```

new_493=# alter table dependent_493 alter relationship SET default 'Parent';
ALTER TABLE
new_493=# alter table project_493 alter pname SET default 'Project_1';
ALTER TABLE
new_493=# alter table department_493 add unique(dname);
ALTER TABLE
new_493=# alter table department_493 add unique(dnumber);
ALTER TABLE
new_493=#

```

## Result of **check, default, and unique**

Check constraint for dependent



```
new_493=# alter table dependent_493 add constraint date check(bdate >= '1985-01-01');
ALTER TABLE
new_493=# \d dependent_493
```

Table "public.dependent_493"				
Column	Type	Collation	Nullable	Default
essn	integer		not null	
department_name	character varying(20)		not null	
sex	character varying(10)			
bdate	date			
relationship	character varying(20)		not null	'Parent'::character varying
constraint	date			

Indexes:

"dependent\_493\_pkey" PRIMARY KEY, btree (essn, department\_name)

Check constraints:

"dependent\_493\_bdate\_check" CHECK (bdate >= '1985-01-01'::date)

Foreign-key constraints:

"dependent\_493\_essn\_fkey" FOREIGN KEY (essn) REFERENCES employee\_493(ssn)

## Check constraint for employee

```
new_493=# alter table employee_493 add constraint date check(bdate >= '1985-01-01');
ALTER TABLE
```

## Permission denied when violating the constraint

```
new_493=# insert into employee_493 values('Tresa', 'Maria', 'Ignatius', 305, '04-04-1984', 'RR Nagar', 'F', 80000, 305, 2);
ERROR: new row for relation "employee_493" violates check constraint "employee_493_bdate_check"
DETAIL: Failing row contains (Tresa, Maria, Ignatius, 305, 1984-04-04, RR Nagar, F, 80000, 305, 2, null).
new_493=#
```

## Inserting values

### Employee

```
new_493=# insert into employee_493 values('Sona', 'S', 'K', 301, '03-04-2001', 'Hebbal', 'F', 30000, 301, 3);
INSERT 0 1
new_493=# insert into employee_293 values('Nishi', 'S', 'Eedula', 302, '03-04-2003', 'Kempapura', 'M', 40000, 302, 2);
ERROR: relation "employee_293" does not exist
LINE 1: insert into employee_293 values('Nishi', 'S', 'Eedula', 302,...
^
new_493=# insert into employee_493 values('Nishi', 'S', 'Eedula', 302, '03-04-2003', 'Kempapura', 'M', 40000, 302, 2);
INSERT 0 1
new_493=# insert into employee_493 values('Karan', 'W', 'Singh', 303, '01-02-1985', 'Indiranagar', 'M', 60000, 303, 3);
INSERT 0 1
new_493=# insert into employee_493 values('Sushmita', 'R', 'Menon', 304, '01-02-1988', 'Kormangala', 'F', 70000, 304, 3);
INSERT 0 1
new_493=# insert into employee_293 values('Maria', 'M', 'Darling', 305, '04-04-1985', 'RR Nagar', 'F', 80000, 305, 2);
ERROR: relation "employee_293" does not exist
LINE 1: insert into employee_293 values('Maria', 'M', 'Darling', 305...
^
new_493=# insert into employee_493 values('Maria', 'M', 'Darling', 305, '04-04-1985', 'RR Nagar', 'F', 80000, 305, 2);
INSERT 0 1
new_493=# SELECT * FROM employee_493;
new_493=# SELECT * FROM employee_493;
ERROR: syntax error at or near "SELECT"
LINE 2: SELECT * FROM employee_493;
^
new_493=# SELECT * FROM employee_493;
```

fname	minit	lname	ssn	bdate	address	sex	salary	super_ssn	dno
Sona	S	K	301	2001-03-04	Hebbal	F	30000	301	3
Nishi	S	Eedula	302	2003-03-04	Kempapura	M	40000	302	2
Karan	W	Singh	303	1985-01-02	Indiranagar	M	60000	303	3
Sushmita	R	Menon	304	1988-01-02	Kormangala	F	70000	304	3
Maria	M	Darling	305	1985-04-04	RR Nagar	F	80000	305	2

(5 rows)

## Department

```
new_493=# insert into department_493 values('Sales', 1, 301, '09-08-1998');
INSERT 0 1
new_493=# insert into department_493 values('HR', 2, 302, '03-12-1998');
INSERT 0 1
new_493=# insert into department_493 values('Analyst', 3, 303, '09-08-1921');
INSERT 0 1
new_493=# SELECT * FROM department_493;
  dname | dnumber | mgr_ssn | mgr_start_date
-----+-----+-----+-----
Sales   |        1 |      301 | 1998-09-08
HR      |        2 |      302 | 1998-03-12
Analyst |        3 |      303 | 1921-09-08
(3 rows)
```

## Project

```
new_493=# insert into project_493 values(1, 11024, 'A-Block', 1);
INSERT 0 1
new_493=# insert into project_493 values(2, 11025, 'B-Block', 2);
INSERT 0 1
new_493=# insert into project_493 values(3, 11026, 'F-Block', 3);
INSERT 0 1
new_493=# SELECT * FROM project_493;
  pname | pnumber | plocation | dnum
-----+-----+-----+-----
1       | 11024   | A-Block   |    1
2       | 11025   | B-Block   |    2
3       | 11026   | F-Block   |    3
(3 rows)
```

## Dept\_locations

```
new_493=# insert into dept_locations_493 values(1, 'First Floor');
INSERT 0 1
new_493=# insert into dept_locations_493 values(1, 'Second Floor');
ERROR:  duplicate key value violates unique constraint "pk3"
DETAIL:  Key (dnumber)=(1) already exists.
new_493=# insert into dept_locations_493 values(2, 'Second Floor');
INSERT 0 1
new_493=# insert into dept_locations_493 values(3, 'third Floor');
INSERT 0 1
new_493=# SELECT * FROM dept_locations_493;
  dnumber | dlocation
-----+-----
1         | First Floor
2         | Second Floor
3         | third Floor
(3 rows)
```

## Works on

```
new_493=# insert into works_on_493 values(301, 11024, 20);
INSERT 0 1
new_493=# insert into works_on_493 values(302, 11025, 10);
INSERT 0 1
new_493=# insert into works_on_493 values(303, 11026, 30);
INSERT 0 1
new_493=# SELECT * FROM works_on_493;
  essn | pno | hours
-----+-----+-----
301    | 11024 |    20
302    | 11025 |    10
303    | 11026 |    30
(3 rows)
```

## 2. Perform the following operations on the table

4\*5 = 20 marks

- Drop and truncate
- Create views and Drop views
- Create user and grant and revoke privileges on the table
  - Grant select for emp table for user 1
  - Grant alter privileges on department table for user 2.
  - Grant all privileges on all the table for user 3
  - Grant alter ,delete, update on dependent and project table for user4

Using alter table commands add column , delete column

Creating view female\_employee\_493 and male\_employee\_493

```
new_493=# insert into dependent_493 values(301, 'Nirmala', 'F', '09-06-1988', 'Mother');
INSERT 0 1
new_493=# insert into dependent_493 values(301, 'Suresh', 'M', '09-06-1986', 'Father');
INSERT 0 1
new_493=# insert into dependent_493 values(303, 'Sohan', 'M', '10-11-2000', 'Uncle');
INSERT 0 1
new_493=# SELECT * FROM dependent_493;
 essn | department_name | sex | bdate      | relationship | constraint
-----+-----+-----+-----+-----+-----
 301  | Nirmala         | F   | 1988-09-06 | Mother      |
 301  | Suresh         | M   | 1986-09-06 | Father      |
 303  | Sohan          | M   | 2000-10-11 | Uncle       |
(3 rows)
```

```
new_493=# create view female_employee_493 as select * from employee_493 where sex = 'F';
CREATE VIEW
new_493=# create view male_employee_493 as select * from employee_493 where sex = 'M';
CREATE VIEW
new_493=# select * from female_employee_493;
 fname | minit | lname | ssn | bdate      | address      | sex | salary | super_ssn | dno
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
 Sona  | S     | K     | 301 | 2001-03-04 | Hebbal      | F   | 30000  | 301       | 3
 Sushmita | R   | Menon | 304 | 1988-01-02 | Kormangala  | F   | 70000  | 304       | 3
 Maria  | M     | Darling | 305 | 1985-04-04 | RR Nagar    | F   | 80000  | 305       | 2
(3 rows)
```

```
new_493=# select * from male_employee_493;
 fname | minit | lname | ssn | bdate      | address      | sex | salary | super_ssn | dno
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
 Nishi | S     | Eedula | 302 | 2003-03-04 | Kempapura   | M   | 40000  | 302       | 2
 Karan | W     | Singh  | 303 | 1985-01-02 | Indiranagar | M   | 60000  | 303       | 3
(2 rows)
```



```

DROP VIEW
new_493=# create view senior_employee_493 as select * from employee_493 where Salary >= 60000;
CREATE VIEW
new_493=# select * from senior_employee_493
new_493=# select * from senior_employee_493;
ERROR:  syntax error at or near "select"
LINE 2: select * from senior_employee_493;
        ^
new_493=# select * from senior_employee_493;

```

fname	minit	lname	ssn	bdate	address	sex	salary	super_ssn	dno
Karan	W	Singh	303	1985-01-02	Indiranagar	M	60000	303	3
Sushmita	R	Menon	304	1988-01-02	Kormangala	F	70000	304	3
Maria	M	Darling	305	1985-04-04	RR Nagar	F	80000	305	2

(3 rows)

## Drop view

```

new_493=# drop view senior_employee_493;
DROP VIEW
new_493=# select * from senior_employee_493
new_493=# select * from senior_employee_493;
ERROR:  syntax error at or near "select"
LINE 2: select * from senior_employee_493;
        ^
new_493=# select * from senior_employee_493;
ERROR:  relation "senior_employee_493" does not exist
LINE 1: select * from senior_employee_493;
        ^

```

## C. Create user and grant and revoke privileges on the table

### (i) Grant select for emp table for user 1

```

CREATE ROLE
new_493=# create user user2 with password 'user2' createdb;
CREATE ROLE
new_493=# create user user3 with password 'user3' createdb;
CREATE ROLE
new_493=# create user user4 with password 'user4' createdb;
CREATE ROLE
new_493=#

```

### (ii) Grant alter privileges on department table for user 2

```

new_493=# grant select on employee_493 to user1;
GRANT
new_493=# grant select on department_493 to user2;
GRANT
new_493=# grant alter on department_493 to user2;
ERROR:  unrecognized privilege type "alter"
new_493=# grant update on department_493 to user2;
GRANT

```



### (iii) Grant all privileges on all the tables for user 3

```
ERROR: relation new_493 does not exist
new_493=# GRANT SELECT, INSERT, UPDATE, DELETE ON ALL TABLES IN SCHEMA public TO user3;
GRANT
```

### (iv) Grant alter, delete, update on dependent and project table for user4

```
new_493=# GRANT INSERT, UPDATE, DELETE on dependent_493 to user4;
GRANT
new_493=# GRANT INSERT, UPDATE, DELETE on project_493 to user4;
GRANT
```

## Checking front end

### Grant select for emp table for user 1

Checking select permissions for user 1

```
C:\Program Files\PostgreSQL\13\bin>psql -U user1 -d new_493
Password for user user1:
psql (13.4)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.
```

```
new_493=> Select * from employee_493;
  fname | minit | lname | ssn | bdate | address | sex | salary | super_ssn | dno
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
  Sona  | S     | K     | 301 | 2001-03-04 | Hebbal | F   | 30000 | 301       | 3
  Nishi | S     | Eedula | 302 | 2003-03-04 | Kempapura | M   | 40000 | 302       | 2
  Karan | W     | Singh | 303 | 1985-01-02 | Indiranagar | M   | 60000 | 303       | 3
  Sushmita | R   | Menon | 304 | 1988-01-02 | Kormangala | F   | 70000 | 304       | 3
  Maria | M     | Darling | 305 | 1985-04-04 | RR Nagar | F   | 80000 | 305       | 2
(5 rows)
```

Permission denied for user 1 to insert

```
new_493=> insert into employee_493 values('Navya', 'S', 'Eedula', 201, '03-04-2001', 'Banaswadi', 'F', 30000, 201, 3);
ERROR: permission denied for table employee_493
new_493=>
```

Grant alter privileges on department table for user 2.

```
new_493=> update department_493 set Mgr_start_date = '01-02-1995';  
UPDATE 3
```

## Grant all privileges on all the tables for user 3

```
C:\Program Files\PostgreSQL\13\bin>psql -U user3 -d new_493  
Password for user user3:  
psql (13.4)  
WARNING: Console code page (437) differs from Windows code page (1252)  
         8-bit characters might not work correctly. See psql reference  
         page "Notes for Windows users" for details.  
Type "help" for help.  
  
new_493=> Select * from department_493;  
  dname | dnumber | mgr_ssn | mgr_start_date  
-----+-----+-----+-----  
Sales   |        1 |      301 | 1995-01-02  
HR       |        2 |      302 | 1995-01-02  
Analyst |        3 |      303 | 1995-01-02  
(3 rows)
```

## Grant alter , delete, update on dependent and project table for user4

```
C:\Program Files\PostgreSQL\13\bin>psql -U user4 -d new_493  
Password for user user4:  
psql (13.4)  
WARNING: Console code page (437) differs from Windows code page (1252)  
         8-bit characters might not work correctly. See psql reference  
         page "Notes for Windows users" for details.  
Type "help" for help.  
  
new_493=> delete from dependent_493 where Dependent_name = 'Mother'
```

## Revoking the user 1 select permissions

```
new_493=# revoke select on employee_493 from user1;  
REVOKE
```

## D . Adding and deleting columns

Adding no\_of\_projects to department

```

new_493=# alter table department_493 add column no_of_projects int;
ALTER TABLE
new_493=# \d department_493
               Table "public.department_493"
   Column      |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
dname           | character varying(20) |           | not null |
dnumber         | integer         |           | not null |
mgr_ssn         | integer         |           | not null |
mgr_start_date  | date            |           | not null |
no_of_projects  | integer         |           |          |
Indexes:
    "pk2" PRIMARY KEY, btree (dnumber)
    "department_493_dname_key" UNIQUE CONSTRAINT, btree (dname)
    "department_493_dname_key1" UNIQUE CONSTRAINT, btree (dname)
    "department_493_dnumber_key" UNIQUE CONSTRAINT, btree (dnumber)
Foreign-key constraints:
    "fk2" FOREIGN KEY (mgr_ssn) REFERENCES employee_493(ssn)
Referenced by:
    TABLE "dept_locations_493" CONSTRAINT "fk3" FOREIGN KEY (dnumber) REFERENCES department_493(dnumber)
    TABLE "project_493" CONSTRAINT "fk3" FOREIGN KEY (dnum) REFERENCES department_493(dnumber)

```

## Deleting the same column

```

new_493=# alter table department_493 drop column no_of_projects;
ALTER TABLE
new_493=# \d department_493
               Table "public.department_493"
   Column      |      Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
dname           | character varying(20) |           | not null |
dnumber         | integer         |           | not null |
mgr_ssn         | integer         |           | not null |
mgr_start_date  | date            |           | not null |
Indexes:
    "pk2" PRIMARY KEY, btree (dnumber)
    "department_493_dname_key" UNIQUE CONSTRAINT, btree (dname)
    "department_493_dname_key1" UNIQUE CONSTRAINT, btree (dname)
    "department_493_dnumber_key" UNIQUE CONSTRAINT, btree (dnumber)
Foreign-key constraints:
    "fk2" FOREIGN KEY (mgr_ssn) REFERENCES employee_493(ssn)
Referenced by:
    TABLE "dept_locations_493" CONSTRAINT "fk3" FOREIGN KEY (dnumber) REFERENCES department_493(dnumber)
    TABLE "project_493" CONSTRAINT "fk3" FOREIGN KEY (dnum) REFERENCES department_493(dnumber)

```

## A. Drop and truncate

```

new_493=# drop table dependent_493;
DROP TABLE
new_493=# \d dependent_493
Did not find any relation named "dependent_493".
new_493=#

```

\*\*\*\*\*

