

## Week 5

### DBMS LAB

PES1UG19CS592

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### Section I

#### 1. SQL DML

Create table

```
company=# create table temp_592(lname VARCHAR(15) NOT NULL, pname VARCHAR(15) NOT NULL, hours DECIMAL(3,1) NOT NULL);  
CREATE TABLE
```

1.

```
company=# insert into temp_592 select lname,pname,hours from works_on as w, employee as e,project as p where e.ssn=w.ess  
n and p.pnumber=w.pno;  
INSERT 0 15  
company=#
```

2.

```
company=# update project set Plocation='Bellaire',Dnum=5 where project.pnumber=10;  
UPDATE 1
```

3.

```
company=# update employee set salary=salary*1.1 from department where department.dname='Research' and employee.dno=depar  
tment.dnumber;  
UPDATE 4
```

4.

```
company=# delete from employee where employee.lname='Brown';  
DELETE 0
```

5.

```
company=# alter table employee disable trigger all;
ALTER TABLE
company=# alter table works_on disable trigger all;
ALTER TABLE
company=# alter table dependent disable trigger all;
ALTER TABLE
company=# delete from employee where ssn in(select ssn from employee except select essn from dependent);
DELETE 5
company=#
```

## 2. Transactions

```
1  BEGIN;
2  CREATE TABLE t1_592(Name VARCHAR(15),id Integer);
3  INSERT INTO t1_592 VALUES('abc',1);
4  INSERT INTO t1_592 VALUES('efg',2);
5  INSERT INTO t1_592 VALUES('xyz',3);
6  INSERT INTO t1_592 VALUES('uvw',4);
7  INSERT INTO t1_592 VALUES('mno',5);
8  COMMIT;
9  SELECT * FROM t1_592;
10
11 BEGIN;
12 CREATE TABLE t2_592(Name VARCHAR(15),id Integer);
13 INSERT INTO t2_592 VALUES('abc',1);
14 INSERT INTO t2_592 VALUES('efg',2);
15 INSERT INTO t2_592 VALUES('xyz',3);
16 INSERT INTO t2_592 VALUES('uvw',4);
17 INSERT INTO t2_592 VALUES('mno',5);
18 ROLLBACK;
19 SELECT * FROM t2_592;|
```

## Final transaction

```
transactions.sql X
transactions.sql
1  BEGIN;
2  CREATE TABLE t(Name VARCHAR(15),id Integer);
3  INSERT INTO t VALUES('abc',1);
4  INSERT INTO t VALUES('efg',2);
5  SAVEPOINT S1;
6  INSERT INTO t VALUES('xyz',3);
7  INSERT INTO t VALUES('uvw',4);
8  ROLLBACK TO S1;
9  SELECT * from t;
10 END TRANSACTION;
11
12 |
```

```
C:\Program Files\PostgreSQL\13\bin>psql -U postgres -f C:\Users\hp\OneDrive\Desktop\shared\PES\5th_Semester\DBMS\Lab\W5\transactions.sql
Password for user postgres:
BEGIN
CREATE TABLE
INSERT 0 1
INSERT 0 1
SAVEPOINT
INSERT 0 1
INSERT 0 1
ROLLBACK
 name | id
-----+---
 abc  |  1
 efg  |  2
(2 rows)

COMMIT
```