DBMS - LAB 5(UE19CS304)

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TASK 1: SQL DML

1a.

company=# create table temp434(lastname varchar(15) not null, projectname varchar not null, h ours decimal(3,1) not null);
CREATE TABLE
company=# insert into temp434(lastname,projectname,hours) select lname,pname,hours from emplo yee as e, project as p, works_on as w where w.essn = e.ssn and w.pno = p.number;

company=# select * from temp434;

lastname	projectname	hours
Smith	ProductX	+ 32.5
Smith	ProductY	7.5
Narayan	ProductZ	40.0
English	ProductX	20.0
English	ProductY	20.0
Wong	ProductY	10.0
Wong	ProductZ	10.0
Wong	Computerization	10.0
Wong	Reorganization	10.0
Zelaya	Newbenefits	30.0
Zelaya	Computerization	10.0
Jabbar	Computerization	35.0
Jabbar	Newbenefits	5.0
Wallace	Newbenefits	20.0
Wallace	Reorganization	15.0
(15 rows)		

```
Windows PowerShell
company=# update project set Plocation = 'Bellaire' where Pnumber = 10;
UPDATE 1
company=# update project set Dnum = 5 where Pnumber = 10;
UPDATE 1
company=# select * project
company=# select from * project;
ERROR: syntax error at or near "project"
LINE 1: select * project
company=# select * from project;
pname | pnumber | plocation | dnum
 ProductX
                               1 |
                                    Bellaire
                               2
                                                       5
 ProductY
                                    Sugarland
 ProductZ
                                    Houston
 Reorganization
                              20
                                    Houston
                                                       1
 Newbenefits
                              30
                                    Stafford
                              10 | Bellaire
 Computerization |
                                                       5
(6 rows)
```

∠ Windows Po	werShell	× -	+ ~					-		×
company=# s	elect *	from depa	artment;							
dname	Ļ	dnumber	mgr_ssn i	mgr_start_date						
Research		 5 l	333445555 :	 1988-05-22						
Administra	tion	ŭ		1995-01-01						
Headquarte	ers	1 İ	888665555	1981-06-19						
(3 rows)										
company=# s	elect *	from emp	lovee:							
fname		lname	ssn	bdate	address	gender	salary	super_ssn	dno	
James	E	+ Bora	-+ 888665555	 1937-11-10	450 Stone, Houston,TX	M	55000.00	+ 	1	
John	В	Smith	123456789	1965-01-09	731 Fondren, Houston, TX	М	30000.00	888665555	5	
Franklin	T	Wong	333445555	1955-12-08	638 voss,Houston,TX	M	40000.00	888665555	5	
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle,Spring,Tx	F	25000.00	333445555	4	
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Bellaire,Tx	F	43000.00	333445555	4	
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble, TX	M	38000.00	333445555	5	
Joyce	Α	English		1972-07-31	5631 Rice,Houston,TX	F	25000.00	333445555	5	
Ahmed	V	Jabbar	987987987	1969-03-29	980 Dallas, Houston,TX	M	25000.00	987654321	4	
(8 rows)										

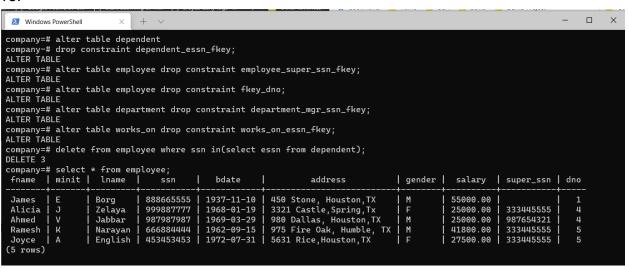
1c.

✓ Windows P	owerShell	× \ +	V							×
company=# UPDATE 4	update e	mployee se	t salary = (:	l.1)*salary wh	nere dno = 5;					
company=#	salact *	from empl								
fname	minit		ssn	bdate	address	gender	salary	super_ssn	dno	
	+	+	+	t		·	+	+	+	
James	E	Borg	888665555	1937-11-10	450 Stone, Houston,TX	M	55000.00		1	
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle,Spring,Tx	F	25000.00	333445555	4	
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Bellaire,Tx	F	43000.00	333445555	4	
Ahmed	ĺν	Jabbar	987987987	1969-03-29	980 Dallas, Houston,TX	M	25000.00	987654321	4	
John	İВ	Smith	123456789	1965-01-09	731 Fondren, Houston, TX	М	33000.00	888665555	5	
Franklin	İТ	Wong	333445555	1955-12-08	638 voss.Houston.TX	М	44000.00	888665555	5	
Ramesh	iк	Narayan	666884444	1962-09-15		М	41800.00	333445555	5	
Jovce	İΑ	English	453453453	1972-07-31	5631 Rice, Houston, TX	F	27500.00	333445555	5	
(8 rows)										
(

1d.

```
company=# delete from employee where lname='Brown';
DELETE 0
company=# select * from employee
company-#;
           minit | lname |
                                            bdate
                                                                address
                                                                                 gender | salary | super_ssn | dno
                              888665555
                                          1937-11-10
                                                                                            55000.00
                                                       450 Stone, Houston, TX
 James
                    Borg
                                                                                                       888665555
                    Smith
                              123456789
                                          1965-01-09
                                                       731 Fondren, Houston, TX
                                                                                            30000.00
 John
 Franklin
                              333445555
                                                       638 voss, Houston, TX
                    Wong
                                          1955-12-08
                                                                                            40000.00
                                                                                                       888665555
Alicia
                              999887777
                                          1968-01-19
                                                       3321 Castle, Spring, Tx
                                                                                            25000.00
                                                                                                       333445555
                    Zelaya
                    Wallace
                                                       291 Berry, Bellaire,Tx
 Jennifer
                              987654321
                                          1941-06-20
                                                                                            43000.00
                                                                                                       333445555
 Ramesh
            K
                    Narayan
                              666884444
                                          1962-09-15
                                                       975 Fire Oak, Humble, TX | M
                                                                                            38000.00
                                                                                                       333445555
                    English
 Joyce
                              453453453
                                          1972-07-31
                                                       5631 Rice, Houston, TX
                                                                                            25000.00
                                                                                                       333445555
 Ahmed
                    Jabbar
                              987987987
                                          1969-03-29
                                                       980 Dallas, Houston,TX
                                                                                  М
                                                                                            25000.00
                                                                                                       987654321
(8 rows)
```

1e.



TASK 2:

2a.

```
company=# begin transaction;
BEGIN
company=*# create table transaction434(name varchar(15), amount float, id int);
CREATE TABLE
company=*# insert into transaction434(name,amount,id) values('sreyahsri',500.5, 434);
INSERT 0 1
company=*# insert into transaction434(name,amount,id) values('naruto',1000,
34);
INSERT 0 1
company=*# commit;
COMMIT
company=# select * from transaction434;
           | amount | id
   name
 sreyahsri
              500.5 | 434
               1000
 naruto
                       34
(2 rows)
```

2b.

```
company=# begin transaction;
BEGIN
company=*# insert into transaction434(name,amount,id) values('xyz',1000.0,43);
INSERT 0 1
company=*# insert into transaction434(name,amount,id) values('sfd',1032.0,232);
INSERT 0 1
company=*# Rollback;
ROLLBACK
company=# select * from transaction434;
           | amount | id
  name
sreyahsri
              500.5 | 434
naruto
               1000 34
(2 rows)
```

```
company=# begin transaction;
company=*# insert into transaction434(name,amount,id) values('barry',2000.0,3342);
INSERT 0 1
company=*# insert into transaction434(name,amount,id) values('hellen',3000.0,4434);
INSERT 0 1
company=*# insert into transaction434(name,amount,id) values('len',4000.0,2414);
INSERT 0 1
company=*# insert into transaction434(name,amount,id) values('steve',5000.0,5434);
INSERT 0 1
company=*# savepoint s1;
SAVEPOINT
company=*# insert into transaction434(name,amount,id) values('eve',6000.0,7434);
INSERT 0 1
company=*# insert into transaction434(name,amount,id) values('grite',7000.0,7454);
INSERT 0 1
company=*# insert into transaction434(name,amount,id) values('gtee',700.0,744);
INSERT 0 1
company=*# insert into transaction434(name,amount,id) values('sundhar',70000.0,4524);
INSERT 0 1
company=*# rollback to s1;
ROLLBACK
company=*# end transaction;
COMMIT
company=# select * from transaction434;
   name
           amount id
sreyahsri
                       434
              500.5
naruto
               1000
                        34
               2000
                      3342
 barry
               3000
                      4434
hellen
               4000
                      2414
 len
               5000 | 5434
steve
(6 rows)
company=#
```