DBMS Week - 5 A Narendiran PES1UG19CS001

Creating and inserting values

```
Date: Note that the state of th
```

1.

SQL DML

 Create a temporary table that has the employee last name, project name, and hours per week for each employee working on a project. Insert the values into the table using insert into with select command.

```
company=# insert into temporary_001
select lname,pname,hours from employee,project,works_on where employee.ssn=works_on.essn and works_on.pno=project.pnumber;
INSERT 0 15
company=# select * from temporary_001 ;
emp_last_name | project_name | hpw
 Smith
                                                 32.5
                       ProductX
                                                 7.5
40.0
20.0
20.0
10.0
10.0
30.0
10.0
35.0
5.0
20.0
 Narayan
English
English
Wong
                        ProductZ
                       ProductX
                       ProductY
                        ProductY
 Wong
                       ProductZ
                       Computerization
Reorganization
 Wong
 Wong
Zelaya
                        Newbenefits
 Zelaya
                        Computerization
 Jabbar
                        Computerization
 Jabbar
                       Newbenefits
 Wallace
                        Newbenefits
 Wallace
                      Reorganization
(15 rows)
```

• Update the location and controlling department number of project number 10 to 'Bellaire' and 5, respectively.

```
company=# update project
company-# set plocation='Bellaire'
company-# where pnumber='10';
UPDATE 1
company=# update project
company=# set dnum=5
company-# where pnumber='10';
UPDATE 1
company=# select * from project;
pname | pnumber | plocation | dnum
                                1 |
2 |
3 |
20 |
30 |
10 |
                                      Bellaire
                                      Sugarland
Houston
 ProductY
                                                           5
5
1
 ProductZ
 Reorganization
                                      Houston
 Newbenefits
                                      Stafford
 Computerization |
                                      Bellaire
(6 rows)
```

Give all employees in the 'Research' department a 10% raise in salary.

company=*# update test set salary=1.1*salary where dno in (select dnumber from department where dname='Research');
UPDATE 2

fname	minit	lname	ssn	bdate	address	gender	salary	super_ssn	dno
James	E	Borg	888665555	1937-11-10	450 Stone, Houston,TX	M	55000.00		1
John	В	Smith	123456789	1965-01-09	731 Fondren, Houston, TX	M	30000.00	888665555	5
Franklin	Т	Wong	333445555	1955-12-08	638 voss, Houston, TX	İМ	40000.00	888665555	5
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle, Spring, Tx	į F	25000.00	333445555	4
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Bellaire,Tx	į F	43000.00	333445555	4
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble, TX	İМ	38000.00	333445555	5
Joyce	Α	English	453453453	1972-07-31	5631 Rice, Houston, TX	į F	25000.00	333445555	5
Ahmed	V	Jabbar	987987987	1969-03-29	980 Dallas, Houston,TX	M	25000.00	987654321	4

Delete employee record whose Iname ='Brown'

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

Delete all the records of the employee who doesn't have a dependent. (use sub query).

```
company=# alter table employee drop constraint employee_super_ssn_fkey;
ALTER TABLE
company=# alter table dependent drop constraint dependent_essn_fkey;
ALTER TABLE
company=# alter table department drop constraint department_mgr_ssn_fkey;
ALTER TABLE
company=# alter table works_on drop constraint works_on_essn_fkey;
ALTER TABLE
company=# delete from employee
where not exists (select essn from dependent where essn=employee.ssn)
DELETE 5
company=# select * from employee ;
  fname | minit | lname | s:
                                               bdate
                                                                    address
                                                                                     | gender | salary | super_ssn | dno
                                    ssn
                                123456789 | 1965-01-09
333445555 | 1955-12-08
 John | B
Franklin | T
Jennifer | S
(3 rows)
                     Smith
                                                           731 Fondren, Houston, TX | M
                                                                                                 30000.00 | 888665555
                                                           291 Berry, Bellaire,Tx | F
                                                                                                40000.00 | 888665555 |
43000.00 | 333445555 |
                     Wong | 333445555 | 1955-12-08 | Wallace | 987654321 | 1941-06-20 |
```

2.

Transactions

(3 rows)

Create a transaction using begin and end commands consisting of the following sql statements.

Create a transaction consisting of a create table and multiple insert statements. After End transaction the changes should be committed and can be checked using the select statement.

 For the above transaction, introduce a roll back after inserting 2 records. The create and insert should not be reflected in the database.

 For the first transaction, introduce a save point after inserting 2 records and insert 2 more records and rollback to savepoint. The database should reflect only the first 2 insertions.