## LAB ACTIVITY 7

Figure 5.6
One possible database state for the COMPANY relational database schema.

Dept\_Locations
Dnumber Dio

Houston

Stafford

Bellaire

EMPLOYEE									
Fname	Minit	Lname	San	Bdate	Address	Sex	Salary	Super_ssn	Dno
John	В	Smith	123456789	1965-01-09	731 Fondren, Houston, TX	M	30000	333445555	5
Franklin	Т	Wong	333445555	1955-12-08	638 Voss, Houston, TX	M	40000	888665555	5
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle, Spring, TX	F	25000	987654321	4
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Bellaire, TX	F	43000	888665555	4
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble, TX	М	38000	333445555	5
Joyce	A	English	453453453	1972-07-31	5631 Rice, Houston, TX	F	25000	333445555	5
Ahmad	٧	Jabbar	987987987	1969-03-29	980 Dallas, Houston, TX	M	25000	987654321	4
James	E	Boro	888665555	1937-11-10	450 Stone, Houston, TX	м	55000	NULL	1

## DEPARTMENT Dname Dnumber Mgr\_ssn Mgr\_start\_date Research 5 333445555 1988-05-22 Administration 4 987654321 1995-01-01 Headquarters 1 888665555 1981-06-19

30.0

10.0

35.0

5.0

20.0

15.0

NULL

10

10

20

999887777

999887777

987987987

987654321

987654321

888665555

						-	- 04	Sections
						5	He	ouston
WORKS_ON				PROJECT		00		
Essn	Pno	Hours		Pname	Pnumbe	Plocat	tion	Dnum
123456789	1	32.5		ProductX	1	Bellaire		5
123456789	2	7.5		ProductY	2	Sugarla	and	5
666884444	3	40.0		ProductZ	3	Housto	n	5
453453453	1.	20.0		Computerization	10	Staffon	d	4
453453453	2	20.0		Reorganization	20	Housto	n	1
333445555	2	10.0		Newbenefits	30	Staffon	d	4
333445555	3	10.0				-		
333445555	10	10.0	DEPENDENT					
333445555	20	10.0	Esan	Dependent name	Sex I	Bdate	Rela	tionship

Essn	Dependent_name	Sex	Bdate	Relationship
333445555	Alice	F	1986-04-05	Daughter
333445555	Theodore	M	1983-10-25	Son
333445555	Joy	F	1958-05-03	Spouse
987654321	Abner	M	1942-02-28	Spouse
123456789	Michael	M	1988-01-04	Son
123456789	Alice	F.	1988-12-30	Daughter
123456789	Elizabeth	F	1967-05-05	Spouse

## Write SQL Queries (Refer to the above given schema for answering the following queries)

- 1) Find the names of all employees have 'Jennifer Wallace' as their direct supervisor.
- 2) Retrieve the name of each employee who has a dependent with the same first name and same sex as the employee.
- 3) Retrieve the names of all employees in department 5 who work more than 10 hours per week on the Product X project.

- 4) For every project located in 'Stafford', list the project number, the controlling department number, and the department manager's last name, address, and birth date.
- 5) Retrieve the name of each employee who works on all the projects controlled by department number 5.