

**Figure 5.6**

One possible database state for the COMPANY relational database schema.

**EMPLOYEE**

| Fname    | Minit | Lname   | Ssn       | Bdate      | Address                  | Sex | Salary | Super_ssn | Dno |
|----------|-------|---------|-----------|------------|--------------------------|-----|--------|-----------|-----|
| John     | B     | Smith   | 123456789 | 1965-01-09 | 731 Fondren, Houston, TX | M   | 30000  | 333445555 | 5   |
| Franklin | T     | 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 | M   | 38000  | 333445555 | 5   |
| Joyce    | A     | English | 453453453 | 1972-07-31 | 5631 Rice, Houston, TX   | F   | 25000  | 333445555 | 5   |
| Ahmad    | V     | Jabbar  | 987987987 | 1969-03-29 | 980 Dallas, Houston, TX  | M   | 25000  | 987654321 | 4   |
| James    | E     | Borg    | 888665555 | 1937-11-10 | 450 Stone, Houston, TX   | M   | 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     |

**DEPT\_LOCATIONS**

| Dnumber | Dlocation |
|---------|-----------|
| 1       | Houston   |
| 4       | Stafford  |
| 5       | Bellaire  |
| 5       | Sugarland |
| 5       | Houston   |

**WORKS\_ON**

| Essn      | Pno | Hours |
|-----------|-----|-------|
| 123456789 | 1   | 32.5  |
| 123456789 | 2   | 7.5   |
| 666884444 | 3   | 40.0  |
| 453453453 | 1   | 20.0  |
| 453453453 | 2   | 20.0  |
| 333445555 | 2   | 10.0  |
| 333445555 | 3   | 10.0  |
| 333445555 | 10  | 10.0  |
| 333445555 | 20  | 10.0  |
| 999887777 | 30  | 30.0  |
| 999887777 | 10  | 10.0  |
| 987987987 | 10  | 35.0  |
| 987987987 | 30  | 5.0   |
| 987654321 | 30  | 20.0  |
| 987654321 | 20  | 15.0  |
| 888665555 | 20  | NULL  |

**PROJECT**

| Pname           | Pnumber | Plocation | Dnum |
|-----------------|---------|-----------|------|
| ProductX        | 1       | Bellaire  | 5    |
| ProductY        | 2       | Sugarland | 5    |
| ProductZ        | 3       | Houston   | 5    |
| Computerization | 10      | Stafford  | 4    |
| Reorganization  | 20      | Houston   | 1    |
| Newbenefits     | 30      | Stafford  | 4    |

**DEPENDENT**

| 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       |