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|  |
|  | CREATE TABLE EMPLOYEE  ( Fname VARCHAR(10) NOT NULL, |
|  | Minit CHAR, |
|  | Lname VARCHAR(20) NOT NULL, |
|  | Ssn CHAR(9) NOT NULL, |
|  | Bdate DATE, |
|  | Address VARCHAR(30), |
|  | Sex CHAR(1), |
|  | Salary DECIMAL(5), |
|  | Super\_ssn CHAR(9), |
|  | Dno INT NOT NULL, |
|  | PRIMARY KEY (Ssn)); |
|  |  |
|  | CREATE TABLE DEPARTMENT |
|  | ( Dname VARCHAR(15) NOT NULL, |
|  | Dnumber INT NOT NULL, |
|  | Mgr\_ssn CHAR(9) NOT NULL, |
|  | Mgr\_start\_date DATE, |
|  | PRIMARY KEY (Dnumber), |
|  | UNIQUE (Dname), |
|  | FOREIGN KEY (Mgr\_ssn) REFERENCES EMPLOYEE(Ssn) ); |
|  |  |
|  | CREATE TABLE DEPT\_LOCATIONS |
|  | ( Dnumber INT NOT NULL, |
|  | Dlocation VARCHAR(15) NOT NULL, |
|  | PRIMARY KEY (Dnumber, Dlocation), |
|  | FOREIGN KEY (Dnumber) REFERENCES DEPARTMENT(Dnumber) ); |
|  |  |
|  | CREATE TABLE PROJECT |
|  | ( Pname VARCHAR(15) NOT NULL, |
|  | Pnumber INT NOT NULL, |
|  | Plocation VARCHAR(15), |
|  | Dnum INT NOT NULL, |
|  | PRIMARY KEY (Pnumber), |
|  | UNIQUE (Pname), |
|  | FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber) ); |
|  |  |
|  | CREATE TABLE WORKS\_ON |
|  | ( Essn CHAR(9) NOT NULL, |
|  | Pno INT NOT NULL, |
|  | Hours DECIMAL(3,1) NOT NULL, |
|  | PRIMARY KEY (Essn, Pno), |
|  | FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn), |
|  | FOREIGN KEY (Pno) REFERENCES PROJECT(Pnumber) ); |
|  |  |
|  | CREATE TABLE DEPENDENT |
|  | ( Essn CHAR(9) NOT NULL, |
|  | Dependent\_name VARCHAR(15) NOT NULL, |
|  | Sex CHAR, |
|  | Bdate DATE, |
|  | Relationship VARCHAR(8), |
|  | PRIMARY KEY (Essn, Dependent\_name), |
|  | FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn) ); |
|  |  |
|  | INSERT INTO EMPLOYEE |
|  | VALUES ('John','B','Smith',123456789,'1965-01-09','731 Fondren, Houston TX','M',30000,333445555,5), |
|  | ('Franklin','T','Wong',333445555,'1965-12-08','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); |
|  |  |
|  | INSERT INTO DEPARTMENT |
|  | VALUES ('Research',5,333445555,'1988-05-22'), |
|  | ('Administration',4,987654321,'1995-01-01'), |
|  | ('Headquarters',1,888665555,'1981-06-19'); |
|  |  |
|  | INSERT INTO PROJECT |
|  | VALUES ('ProductX',1,'Bellaire',5), |
|  | ('ProductY',2,'Sugarland',5), |
|  | ('ProductZ',3,'Houston',5), |
|  | ('Computerization',10,'Stafford',4), |
|  | ('Reorganization',20,'Houston',1), |
|  | ('Newbenefits',30,'Stafford',4); |
|  |  |
|  | INSERT INTO WORKS\_ON |
|  | VALUES (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), |
|  | (888665555,20,16.0); |
|  |  |
|  | INSERT INTO DEPENDENT |
|  | VALUES (333445555,'Alice','F','1986-04-04','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'); |
|  |  |
|  | INSERT INTO DEPT\_LOCATIONS |
|  | VALUES (1,'Houston'), |
|  | (4,'Stafford'), |
|  | (5,'Bellaire'), |
|  | (5,'Sugarland'), |
|  | (5,'Houston'); |
|  |  |