DROP SCHEMA IF EXISTS EmployeeManagementSchema;

CREATE SCHEMA EmployeeManagementSchema;

USE EmployeeManagementSchema;

CREATE TABLE EmployeeData(

empNo VARCHAR(5) NOT NULL,

fname VARCHAR(20) NOT NULL,

lname VARCHAR(20) NOT NULL,

address VARCHAR(30) NOT NULL,

salary INT(7),

branchNo VARCHAR(5),

managerNo VARCHAR(5),

PRIMARY KEY (empNo));

CREATE TABLE Branch(

branchName VARCHAR(25) NOT NULL,

branchNo VARCHAR(5) NOT NULL,

managerNo VARCHAR(5),

PRIMARY KEY (branchNo),

UNIQUE KEY (branchName));

CREATE TABLE Project

(projectNo VARCHAR(5) NOT NULL,

projectName VARCHAR(20) NOT NULL,

projectBudget INT(10),

managerNo VARCHAR(5),

clientNo VARCHAR(5),

PRIMARY KEY(projectNo),

UNIQUE KEY (projectName));

CREATE TABLE Manager (

managerNo VARCHAR(5) NOT NULL,

managerName VARCHAR(50) NOT NULL,

managerSalary INT(10) NOT NULL,

branchNo VARCHAR(5) NOT NULL,

projectNo VARCHAR(5),

PRIMARY KEY (managerNo));

CREATE TABLE WorksOn(

empNo VARCHAR(5),

projectNo VARCHAR(5),

hours INT(2));

CREATE TABLE ClientInfo(

clientNo VARCHAR(5) NOT NULL,

clientName VARCHAR(50) NOT NULL,

branchNo VARCHAR(5) NOT NULL,

PRIMARY KEY (clientNo),

UNIQUE KEY (clientName));

ALTER TABLE EmployeeData

ADD CONSTRAINT fk\_BNo FOREIGN KEY (branchNo) REFERENCES Branch(branchNo)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE EmployeeData

ADD CONSTRAINT fk\_MNo FOREIGN KEY (managerNo) REFERENCES Manager(managerNo)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE Branch

ADD CONSTRAINT fk\_MNo1 FOREIGN KEY (managerNo) REFERENCES Manager(managerNo)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE Manager

ADD CONSTRAINT fk\_BNo1 FOREIGN KEY (branchNo) REFERENCES Branch(branchNo)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE Manager

ADD CONSTRAINT fk\_PNo FOREIGN KEY (projectNo) REFERENCES Project(projectNo)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE Project

ADD CONSTRAINT fk\_MNo2 FOREIGN KEY (managerNo) REFERENCES Manager(managerNo)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE Project

ADD CONSTRAINT fk\_CNo FOREIGN KEY (clientNo) REFERENCES ClientInfo(clientNo)

ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE ClientInfo

ADD CONSTRAINT fk\_BNo2 FOREIGN KEY (branchNo) REFERENCES Branch(branchNo)

ON DELETE CASCADE ON UPDATE CASCADE;

INSERT INTO EmployeeData VALUES ('E1001','John','Smith','Okalhoma City',30000,'B02','M2003');

INSERT INTO EmployeeData VALUES ('E1002','Mathew','Patel','Okalhoma City',20000,'B01','M2002');

INSERT INTO EmployeeData VALUES ('E1003','Hugo','Lorris','Seattle',50000,'B02','M2003');

INSERT INTO EmployeeData VALUES ('E1004','Laura','Harris','Dallas',10000,'B03','M2005');

INSERT INTO EmployeeData VALUES ('E1005','Emilly','Clark','New York',40500,'B03','M2005');

INSERT INTO EmployeeData VALUES ('E1006','Tori','Singh','Las Vegas',35000,'B04','M2001');

INSERT INTO EmployeeData VALUES ('E1007','Abdul','Khan','Las Vegas',75000,'B01','M2002');

INSERT INTO EmployeeData VALUES ('E1008','Senti','Ago','Colorado',25000,'B04','M2001');

INSERT INTO EmployeeData VALUES ('E1009','Michelle','Gaffeni','Manhattan',100000,'B05','M2004');

INSERT INTO EmployeeData VALUES ('E1010','Edward','Pacino','Boston',55000,'B05','M2004');

SELECT \* FROM Employeedata;

INSERT INTO Branch VALUES ('Irvine', 'B01', 'M2002');

INSERT INTO Branch VALUES ('Oakland', 'B02', 'M2003');

INSERT INTO Branch VALUES ('Nevada', 'B03', 'M2005');

INSERT INTO Branch VALUES ('San Fransisco', 'B04', 'M2001');

INSERT INTO Branch VALUES ('Boston', 'B05', 'M2004');

SELECT \* FROM Branch;

INSERT INTO ClientInfo VALUES ('C001','Bosch','B01');

INSERT INTO ClientInfo VALUES ('C002','Rock','B03');

INSERT INTO ClientInfo VALUES ('C003','Hulk','B02');

INSERT INTO ClientInfo VALUES ('C004','Captain America','B02');

INSERT INTO ClientInfo VALUES ('C005','Batman','B04');

INSERT INTO ClientInfo VALUES ('C006','Superman','B05');

SELECT \* FROM ClientInfo;

INSERT INTO Project VALUES ('P701','Railway Reservation System',100000,'M2002', 'C002');

INSERT INTO Project VALUES ('P702','Library Management',60000,'M2001', 'C005');

INSERT INTO Project VALUES ('P703','Waste Management',120000,'M2003', 'C001');

INSERT INTO Project VALUES ('P704','Restaurant Management',155000,'M2005', 'C003');

INSERT INTO Project VALUES ('P705','Tax Management System',80000,'M2004', 'C004');

SELECT \* FROM Project;

INSERT INTO Manager (managerNo, managerName, branchNo, projectNo, managerSalary) VALUES ('M2001','Alvin Mayes','B04','P702',40000);

INSERT INTO Manager (managerNo, managerName, branchNo, projectNo, managerSalary) VALUES ('M2002','Jose Mourinho','B01','P701',50000);

INSERT INTO Manager (managerNo, managerName, branchNo, projectNo, managerSalary) VALUES ('M2003','Pep Gaurdiola','B02','P703',45000);

INSERT INTO Manager (managerNo, managerName, branchNo, projectNo, managerSalary) VALUES ('M2004','Lois Van Gaal','B05','P705',75000);

INSERT INTO Manager (managerNo, managerName, branchNo, projectNo, managerSalary) VALUES ('M2005','Alex Ferguson','B03','P704',60000);

SELECT \* FROM Manager;

INSERT INTO WorksOn VALUES ('E1001','P701',20);

INSERT INTO WorksOn VALUES ('E1002','P702',10);

INSERT INTO WorksOn VALUES ('E1003','P704',30);

INSERT INTO WorksOn VALUES ('E1004','P703',40);

INSERT INTO WorksOn VALUES ('E1005','P704',25);

INSERT INTO WorksOn VALUES ('E1006','P701',35);

INSERT INTO WorksOn VALUES ('E1007','P705',40);

INSERT INTO WorksOn VALUES ('E1008','P703',20);

INSERT INTO WorksOn VALUES ('E1009','P705',10);

INSERT INTO WorksOn VALUES ('E1010','P702',25);

SELECT \* FROM WorksOn;

CREATE VIEW Admin AS

SELECT e.empNo , e.fName, e.lName, e.salary AS empSalary, b.branchNo, m.managerNo, p.projectNo

FROM EmployeeData e, Branch b, Project p, Manager m

WHERE b.branchNo = e.branchNo

AND m.managerNo = e.managerNo

AND p.projectNo = m.projectNo

ORDER BY e.empNo;

CREATE VIEW ManagerInfo AS

SELECT m.managerNo, m.managerName, m.managerSalary AS managerSalary, b.branchNo, p.projectNo, e.empNo, c.clientNo, e.salary AS empSalary

FROM Manager m, Branch b, EmployeeData e, Project p, ClientInfo c

WHERE m.managerNo = e.managerNo

AND b.branchNo = m.branchNo

AND p.projectNo = m.projectNo

AND c.clientNo = p.clientNo

ORDER BY m.managerNo;

CREATE VIEW EmployeeWork AS

SELECT e.empNo, e.fName, e.lName, e.salary, e.address, p.projectNo, p.projectName

FROM EmployeeData e, Project p, WorksOn w

WHERE e.empNo = w.empNo

AND p.projectNo = w.projectNo

ORDER BY e.empNo;

SELECT \* FROM Admin;

SELECT \* FROM ManagerInfo;

SELECT \* FROM EmployeeWork;