CREATE DATABASE labexp3;

USE labexp3;

CREATE TABLE EMPLOYEE (

Fname VARCHAR(15) NOT NULL,

Minit CHAR,

Lname VARCHAR(15) NOT NULL,

Ssn CHAR(9) NOT NULL,

Bdate DATE,

Address VARCHAR(30),

Sex CHAR,

Salary DECIMAL(10,2),

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,

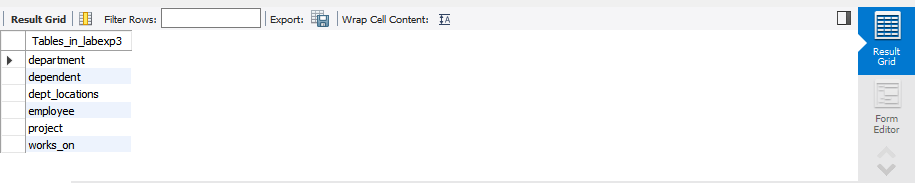
Relationship VARCHAR(8),

PRIMARY KEY (Essn, Dependent\_name),

FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn)

);

SHOW TABLES;



## VALUES INSERTED

INSERT IGNORE INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super\_ssn, Dno) VALUES

('John', NULL, 'Smith', '123456789', '1965-01-09', '731 Fondren, Houston TX', 'M', 30000, '333445555', 5),

('Franklin', 'W', 'Wong', '333445555', '1965-12-08', '638 Voss, Houston TX', 'M', 40000, '888665555', 5),

('Alicia', NULL, 'Zelaya', '999887777', '1968-01-19', '3321 Castle, Spring TX', 'F', 25000, '987654321', 4),

('Jennifer', NULL, 'Wallace', '987654321', '1941-06-20', '291 Berry, Bellaire TX', 'F', 43000, '888665555', 4),

('Ramesh', NULL, 'Narayan', '666884444', '1962-09-15', '975 Fire Oak, Humble TX', 'M', 38000, '333445555', 5),

('Joyce', NULL, 'English', '453453453', '1972-07-31', '5631 Rice, Houston TX', 'F', 25000, '333445555', 5),

('Ahmad', NULL, 'Jabbar', '987987987', '1969-03-29', '980 Dallas, Houston TX', 'M', 25000, '987654321', 4),

('James', NULL, 'Borg', '888665555', '1937-11-10', '450 Stone, Houston TX', 'M', 55000, NULL, 1);

INSERT INTO DEPARTMENT (Dname, Dnumber, Mgr\_ssn, Mgr\_start\_date) VALUES

('Research', 5, '333445555', '1988-05-22'),

('Administration', 4, '987654321', '1995-01-01'),

('Headquarters', 1, '888665555', '1981-06-19');

INSERT INTO PROJECT (Pname, Pnumber, Plocation, Dnum) 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 (Essn, Pno, Hours) 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, 0.0);

INSERT INTO DEPENDENT (Essn, Dependent\_name, Sex, Bdate, Relationship) 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'),

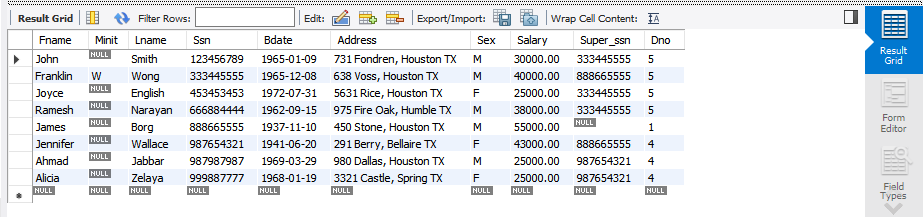
('123456789', 'Michael', 'M', '1988-01-04', 'Son'),

('123456789', 'Alice', 'F', '1988-12-30', 'Daughter'),

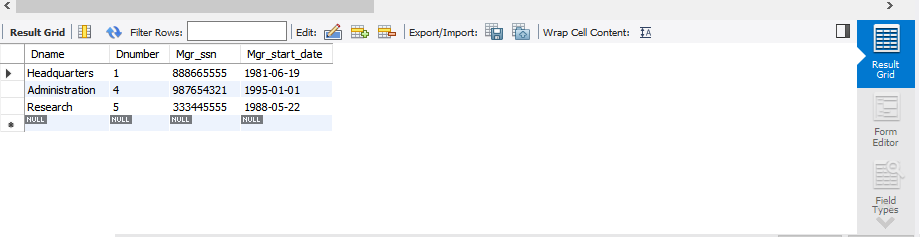
('123456789', 'Elizabeth', 'F', '1967-05-05', 'Spouse');

# CHECKING IF THE VALUES ARE INSERTED

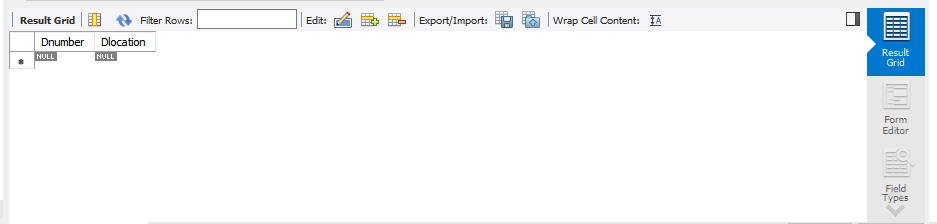
SELECT \* FROM EMPLOYEE;



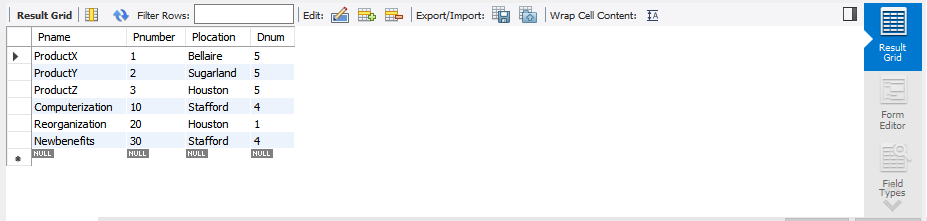
SELECT \* FROM DEPARTMENT;



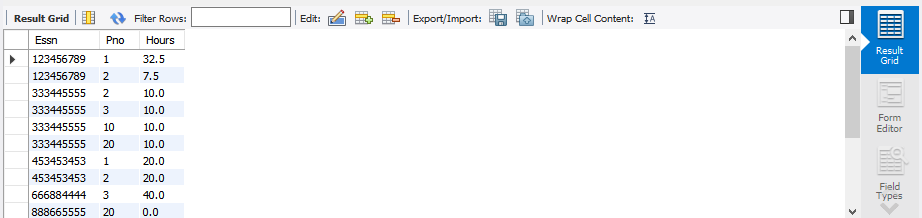
SELECT \* FROM DEPT\_LOCATIONS;



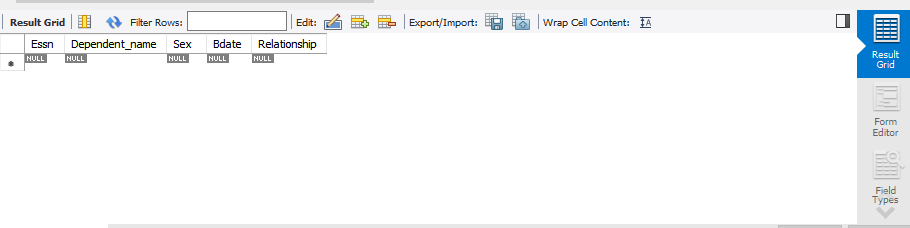
SELECT \* FROM PROJECT;



SELECT \* FROM WORKS\_ON;



SELECT \* FROM DEPENDENT;

****