Damanpreet Singh

SAP ID- 500119063

LAB-3

```
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),
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UNIQUE (Dname),
  FOREIGN KEY (Mgr_ssn) REFERENCES EMPLOYEE(Ssn)
);
CREATE TABLE DEPT_LOCATIONS (
  Dnumber INT NOT NULL,
  Diocation 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)
```

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);
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;
                                 Export: Wrap Cell Content: 1A
 Result Grid Filter Rows:
    Tables_in_labexp3
 department
   dependent
   dept_locations
   employee
   project
   works_on
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),
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('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;

Frame Minit Lname Ssn Bdate Address Sex Salary Super_ssn Dno	Re	esult Grid	II 🚷	Filter Row	5:	Edit:	🚣 🖶 🖶 Export/Imp	🖟 📙 Export/Import: 谓 🐻 Wrap Cell Cor			ntent: ‡A
Siliul 123536789 1963-11-09 731 Polluleir, Houston TX M 40000.00 888665555 5		Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
Joyce English 453453453 1972-07-31 5631 Rice, Houston TX F 25000.00 333445555 5 Ramesh Narayan 666884444 1962-09-15 975 Fire Oak, Humble TX M 38000.00 333445555 5 James Borg 888665555 1937-11-10 450 Stone, Houston TX M 55000.00 10000 1 Jennifer Wallace 987654321 1941-06-20 291 Berry, Bellaire TX F 43000.00 888665555 4 Ahmad Jabbar 987987987 1969-03-29 980 Dallas, Houston TX M 25000.00 987654321 4 Alicia Zelaya 999887777 1968-01-19 3321 Castle, Spring TX F 25000.00 987654321 4	•	John	NULL	Smith	123456789	1965-01-09	731 Fondren, Houston TX	М	30000.00	333445555	5
Ramesh R		Franklin		Wong	333445555	1965-12-08	638 Voss, Houston TX	M	40000.00	888665555	5
James Borg 888665555 1937-11-10 450 Stone, Houston TX M 55000.00 IDITE 1 Jennifer Wallace 987654321 1941-06-20 291 Berry, Bellaire TX F 43000.00 888665555 4 Ahmad Alicia 397987987 1969-03-29 980 Dallas, Houston TX M 25000.00 987654321 4 Alicia Zelaya 999887777 1968-01-19 3321 Castle, Spring TX F 25000.00 987654321 4		Joyce		English	453453453	1972-07-31	5631 Rice, Houston TX	F	25000.00	333445555	5
Same		Ramesh		Narayan	666884444	1962-09-15	975 Fire Oak, Humble TX	M	38000.00	333445555	5
Allida Zelaya 99987777 1968-01-19 3321 Castle, Spring TX F 25000.00 987654321 4		James		Borg	888665555	1937-11-10	450 Stone, Houston TX	M	55000.00	NULL	1
Alicia Zelaya 999887777 1968-01-19 3321 Castle, Spring TX F 25000.00 987654321 4		Jennifer	NULL	Wallace	987654321	1941-06-20	291 Berry, Bellaire TX	F	43000.00	888665555	4
Alica Zelaya 999007/7/ 1900-01-19 3321 Castle, Spring 1X P 23000.00 90703-321 4		Ahmad	NULL	Jabbar	987987987	1969-03-29	980 Dallas, Houston TX	M	25000.00	987654321	4
NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE						1968-01-19	3321 Castle, Spring TX	F	25000.00	987654321	
		NULL	NULL	NULL	NULL	NULL	NULL	HULL	NULL	NULL	NULL

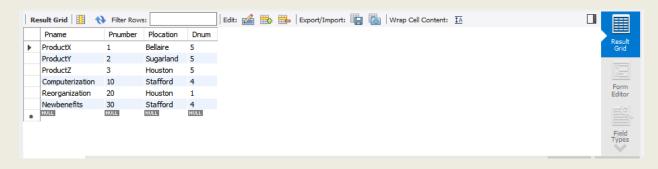
SELECT * FROM DEPARTMENT;



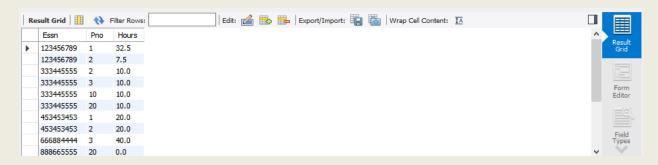
SELECT * FROM DEPT_LOCATIONS;



SELECT * FROM PROJECT;



SELECT * FROM WORKS ON;



SELECT * FROM DEPENDENT;

