**SQL ASSIGNMENT 3**

**SOLUTION QURRIES**

CREATE TABLE SEMP (

EMPNO CHAR(4),

EMPNAME CHAR(20),

BASIC FLOAT,

DEPTNO CHAR(2),

DEPTHEAD CHAR(4)

);

CREATE TABLE SDEPT (

DEPTNO CHAR(2),

DEPTNAME CHAR(15)

);

INSERT INTO SDEPT (DEPTNO, DEPTNAME) VALUES

(10, 'Development'),

(20, 'Training');

INSERT INTO SEMP (EMPNO, EMPNAME, BASIC, DEPTNO, DEPTHEAD) VALUES

('0001', 'SUNIL', 6000, '10', '0001'),

('0002', 'HIREN', 8000, '20', '0002'),

('0003', 'ALI', 4000, '10', '0001'),

('0004', 'GEORGE', 6000, '20', '0002');

CREATE TABLE S (

S\_Num CHAR(2) PRIMARY KEY,

Sname VARCHAR(20),

Status INT,

City VARCHAR(20)

);

CREATE TABLE P (

P\_Num CHAR(2) PRIMARY KEY,

Pname VARCHAR(20),

Color VARCHAR(10),

Weight DECIMAL(5,2),

City VARCHAR(20)

);

CREATE TABLE J (

J\_Num CHAR(2) PRIMARY KEY,

Jname VARCHAR(20),

City VARCHAR(20)

);

CREATE TABLE SPJ (

S\_Num CHAR(2),

P\_Num CHAR(2),

J\_Num CHAR(2),

Qty INT,

PRIMARY KEY (S\_Num, P\_Num, J\_Num),

FOREIGN KEY (S\_Num) REFERENCES S(S\_Num),

FOREIGN KEY (P\_Num) REFERENCES P(P\_Num),

FOREIGN KEY (J\_Num) REFERENCES J(J\_Num)

);

INSERT INTO S (S\_Num, Sname, Status, City) VALUES

('S1', 'Supplier A', 10, 'New York'),

('S2', 'Supplier B', 20, 'London'),

('S3', 'Supplier C', 30, 'Paris');

INSERT INTO P (P\_Num, Pname, Color, Weight, City) VALUES

('P1', 'Part 1', 'Red', 10.50, 'Tokyo'),

('P2', 'Part 2', 'Blue', 15.25, 'Berlin'),

('P3', 'Part 3', 'Green', 8.75, 'Rome');

INSERT INTO J (J\_Num, Jname, City) VALUES

('J1', 'Project A', 'Sydney'),

('J2', 'Project B', 'Moscow'),

('J3', 'Project C', 'Rio de Janeiro');

INSERT INTO SPJ (S\_Num, P\_Num, J\_Num, Qty) VALUES

('S1', 'P1', 'J1', 100),

('S2', 'P2', 'J2', 200),

('S3', 'P3', 'J3', 300),

('S1', 'P2', 'J1', 50),

('S2', 'P3', 'J2', 150);

SELECT \* FROM S;

SELECT S\_Num, Sname FROM S;

SELECT Pname, Color FROM P WHERE City = 'London';

SELECT \* FROM S WHERE City = 'London';

SELECT \* FROM S WHERE City IN ('Paris', 'Athens');

SELECT \* FROM J WHERE City = 'Athens';

SELECT Pname FROM P WHERE Weight BETWEEN 12 AND 14;

SELECT \* FROM S WHERE Status >= 20;

SELECT \* FROM S WHERE City <> 'London';

SELECT DISTINCT City FROM S;

SELECT Pname,

Weight AS Grams,

Weight \* 1000 AS Milligrams,

Weight / 1000 AS Kilograms

FROM P;