Exercise 01

1) Create the table SEMP with the following structure:

```
CREATE TABLE SEMP (

EMPNO CHAR(4),

EMPNAME CHAR(20),

BASIC FLOAT,

DEPTNO CHAR(2),

DEPTHEAD CHAR(4)
);
```

2) Create the table SDEPT with the following structure:

```
CREATE TABLE SDEPT (
DEPTNO CHAR(2),
DEPTNAME CHAR(15)
);
```

3) Insert values into the SDEPT table:

4) Insert values into the SEMP table:

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

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

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

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

('0004', 'GEORGE', 6000, NULL, '0002');
```

5) Create the SUPPLIER (S), PARTS (P), PROJECTS (J), and SUPPLIER-PARTS-PROJECT (SPJ) tables:

SUPPLIER Table:

```
CREATE TABLE S (
S# CHAR(2),
Sname CHAR(20),
Status INT,
City CHAR(15)
);
```

PARTS Table:

```
CREATE TABLE P (
    P# CHAR(2),
    Pname CHAR(20),
    Color CHAR(10),
    Weight FLOAT,
    City CHAR(15)
);
```

PROJECTS Table:

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```
CREATE TABLE J (

J# CHAR(2),

Jname CHAR(20),

City CHAR(15)
);
```

SUPPLIER-PARTS-PROJECT Table:

```
CREATE TABLE SPJ (
    S# CHAR(2),
    P# CHAR(2),
    J# CHAR(2),
    Qty INT
);
```

Insert sample data:

Insert into SUPPLIER (S):

Insert into PARTS (P):

Insert into PROJECTS (J):

Insert into SUPPLIER-PARTS-PROJECT (SPJ):

```
INSERT INTO SPJ (S#, P#, J#, Qty)

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

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

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

SELECT Queries:

5) Display all the data from the S table:

```
SELECT *
FROM S;
```

6) Display only the S# and SNAME fields from the S table:

Exercise 01 2

```
SELECT S#, Sname
FROM S;
```

7) Display the PNAME and COLOR from the P table for the CITY = "London":

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

8) Display all the Suppliers from London:

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

9) Display all the Suppliers from Paris or Athens:

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

10) Display all the Projects in Athens:

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

11) Display all the Partnames with the weight between 12 and 14 (inclusive of both):

```
SELECT Pname
FROM P
WHERE Weight BETWEEN 12 AND 14;
```

12) Display all the Suppliers with a Status greater than or equal to 20:

```
SELECT *
FROM S
WHERE Status >= 20;
```

13) Display all the Suppliers except the ones from London:

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

14) Display only the Cities from where the Suppliers come from:

```
SELECT DISTINCT City
FROM S;
```

15) Assuming that the Part Weight is in GRAMS, display the same in MILLIGRAMS and KILOGRAMS:

```
SELECT Pname,
Weight AS Grams,
```

Exercise 01 3

(Weight * 1000) AS Milligrams, (Weight / 1000) AS Kilograms FROM P;

Exercise 01 4