```
Create the table SEMP with the following structure:-
EMPNO CHAR(4)
EMPNAME
CHAR(20)
BASIC FLOAT
DEPTNO CHAR(2)
DEPTHEAD CHAR(4)
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:-
DEPTNO CHAR(2)
DEPTNAME CHAR(15)
CREATE TABLE SDEPT (
  -> DEPTNO CHAR(2),
  -> DEPTNAME CHAR(15)
  ->);
3. Insert into the SDEPT table the following values:-
10, Development
20, Training
INSERT INTO SDEPT (DEPTNO, DEPTNAME) VALUES
  -> ('10', 'Development'),
  -> ('20', 'Training');
4. Insert into the SEMP table the following values:-
0001, SUNIL, 6000, 10
0002, HIREN, 8000, 20
0003, ALI, 4000, 10, 0001
0004, GEORGE, 6000, 0002
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, '20', '0002');
```

```
Create S, P, J, SPJ tables as specified below and insert a few rows in each table:-
SUPPLIER
(S#, Sname, Status, City) - S
CREATE TABLE S (
  -> SNUM CHAR(2),
  -> SNAME CHAR(20),
  -> STATUS INT,
  -> CITY CHAR(20)
  ->);
INSERT INTO S ('S#', Sname, Status, City) VALUES
  -> ('S1', 'Smith', 20, 'London'),
  -> ('S2', 'Jones', 30, 'Paris'),
  -> ('S3', 'Blake', 10, 'New York');
Query OK, 3 rows affected (0.01 sec)
PARTS
(P#, Pname, Color, Weight, City) - P
CREATE TABLE P (
  -> `P#` CHAR(2), -- Part Number
  -> Pname CHAR(20), -- Part Name
  -> Color CHAR(10), -- Part Color
  -> Weight FLOAT, -- Part Weight
  -> City CHAR(20) -- Part's City
  ->);
```

```
INSERT INTO P ('P#', Pname, Color, Weight, City) VALUES
  -> ('P1', 'Bolt', 'Red', 12.5, 'London'),
  -> ('P2', 'Nut', 'Blue', 3.5, 'Paris'),
  -> ('P3', 'Screw', 'Green', 1.5, 'New York');
PROJECTS (J#, Jname, City) - J
CREATE TABLE J (
  -> `J#` CHAR(2), -- Project Number
  -> Jname CHAR(20), -- Project Name
  -> City CHAR(20) ) -- Project's City
INSERT INTO J ('J#', Jname, City) VALUES
  -> ('J1', 'Bridge', 'London'),
  -> ('J2', 'Building', 'Paris'),
  -> ('J3', 'Road', 'New York');
SUPPLIER-PARTS-PROJECT (S#, P#, J#, Qty) - SPJ
CREATE TABLE SPJ (
  -> `S#` CHAR(2), -- Supplier Number (from S table)
  -> `P#` CHAR(2), -- Part Number (from P table)
  -> `J#` CHAR(2), -- Project Number (from J table)
  -> Qty INT
                     -- Quantity of parts supplied
  -> );
INSERT INTO SPJ ('S#', 'P#', 'J#', Qty) VALUES
  -> ('S1', 'P1', 'J1', 300),
  -> ('S2', 'P2', 'J2', 400),
  -> ('S3', 'P3', 'J3', 500);
Sample data for S# column:- 'S1', 'S2', 'S3', etc.
Sample data fo P# column:- 'P1', 'P2', 'P3', etc.
Sample data for J# column:- 'J1', 'J2', 'J3', etc.
Sample data for Status column:- 10, 20, 30, etc.
```

Write the SELECT queries to do the following:-

5. Display all the data from the S table.

```
mysql> select * from s;
 S#
                 Status | City
         Sname
  S1
         Smith
                      20
                           London
  S2
         Jones
                      30
                           Paris
  S3
         Blake
                      10
                           New York
3 rows in set (0.01 sec)
```

6. Display only the S# and SNAME fields from the S table.

```
nysql> select * from s;
 S#
                Status
                          City
        Sname |
 S1
         Smith
                     20
                           London
                           Paris
 S2
         Jones
                     30
 S3
        Blake
                     10
                           New York
 rows in set (0.01 sec)
```

```
mysql> SELECT S#, Sname from s;
-> ^C
mysql> SELECT `S#`, Sname from s;
+----+
| S# | Sname |
+----+
| S1 | Smith |
| S2 | Jones |
| S3 | Blake |
+----+
```

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

```
ysql> select pname ,color from p;
-----+
pname | color |
-----+
Bolt | Red |
Nut | Blue |
Screw | Green |
----+
rows in set (0.00 sec)
```

8. Display all the Suppliers from London.

9. Display all the Suppliers from Paris or Athens.

- 10. Display all the Projects in Athens.
- 11. Display all the Partnames with the weight between 12 and 14 (inclusive of both).

```
nysql> SELECT PNAME
-> FROM P
-> WHERE WEIGHT BETWEEN 12 AND 14;
-----+
PNAME |
-----+
Bolt |
```

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

13. Display all the Suppliers except the Suppliers from London.

```
nysql> select * from s where city!="London";
-----+----+-----+------+
S# | Sname | Status | City |
-----+-----+------+
S2 | Jones | 30 | Paris |
S3 | Blake | 10 | New York |
```

14. Display only the Cities from where the Suppliers come from.

```
ysql> SELECT DISTINCT CITY
-> FROM S;
-----+
CITY |
-----+
London |
Paris |
New York |
-----+
```

This query returns a list of all the cities where suppliers are located, with no duplicates

15. Assuming that the Part Weight is in GRAMS, display the same in

MILLIGRAMS and KILOGRAMS.