Excercise 1

Q1) Create the table SEMP with the following structure:-

```
mysql> CREATE TABLE SEMP (
-> EMPNO CHAR(4),
-> EMPNAME CHAR(20),
-> BASIC FLOAT,
-> DEPTNO CHAR(2),
-> DEPTHEAD CHAR(4)

[ -> );
Query OK, 0 rows affected (0.09 sec)
```

Q2)Create the table SDEPT with the following structure:-

Q3)Insert into the SDEPT table the following values:-

```
mysql> INSERT INTO SEMP VALUES
-> ('0001', 'SUNIL', 6000, '10', NULL),
-> ('0002', 'HIREN', 8000, '20', NULL),
-> ('0003', 'ALI', 4000, '10', '0001'),
-> INSERT INTO SDEPT VALUE^C
mysql> select * from SEMP;
Empty set (0.01 sec)
```

Q4)Insert into the SEMP table the following values:-

```
mysql> INSERT INTO SDEPT VALUES
    -> ('10', 'Development'),
    -> ('20', 'Training');
Query OK, 2 rows affected (0.02 sec)
Records: 2 Duplicates: 0 Warnings: 0
[mysql> select * from SDEPT;
  DEPTNO |
            DEPTNAME
            Development
  10
            Training
  20
2 rows in set (0.00 sec)
[mysql> select * from SEMP;
                    BASIC
                            DEPTNO
                                     DEPTHEAD
          EMPNAME
        I SUNIL
  0001
                                    NULL
                     6000 l
                            10
  0002
        l HIREN
                            20
                                   l NULL
                     8000 l
  0003
         ALI
                     4000
                            10
                                     0001
  0004
          GEORGE
                     6000 l
                            NULL
                                     0002
4 rows in set (0.00 sec)
```

5. Display all the data from the S table.

```
mysql> select * from S;

+----+
| S# | Sname | Status | City |

+----+
| S1 | Smith | 20 | London |

| S2 | Jones | 10 | Paris |

| S3 | Blake | 30 | New York |

+----+
3 rows in set (0.00 sec)
```

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

[mysql> SELECT `S#`, Sname FROM S; +----+ | S# | Sname | +----+

3 rows in set (0.00 sec)

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

```
mysql> SELECT Pname, Color FROM P WHERE City = 'London';
+----+
| Pname | Color |
+----+
| Bolt | Red |
+----+
1 row 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

```
mysql> SELECT * FROM J WHERE City = 'Athens';
Empty set (0.00 sec)
```

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

mysql> SELECT Pname FROM P WHERE Weight BETWEEN 12 AND 14;

```
+----+
| Pname |
+----+
| Bolt |
+----+
1 row in set (0.00 sec)
```

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

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

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

3 rows in set (0.02 sec)

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

```
mysql> SELECT
    ->
           Pname,
          Weight AS Grams,
           Weight * 1000 AS Milligrams,
           Weight / 1000 AS Kilograms
    ->
   -> FROM P;
| Pname | Grams | Milligrams | Kilograms |
| Bolt |
           12.5
                       12500 |
                                  0.0125 |
            5.5
Nut
                      5500
                                  0.0055
| Screw |
                       8000 |
                                  0.008
3 rows in set (0.00 sec)
```