SQL Exercise 1

1. Create the table SEMP with the following structure:-

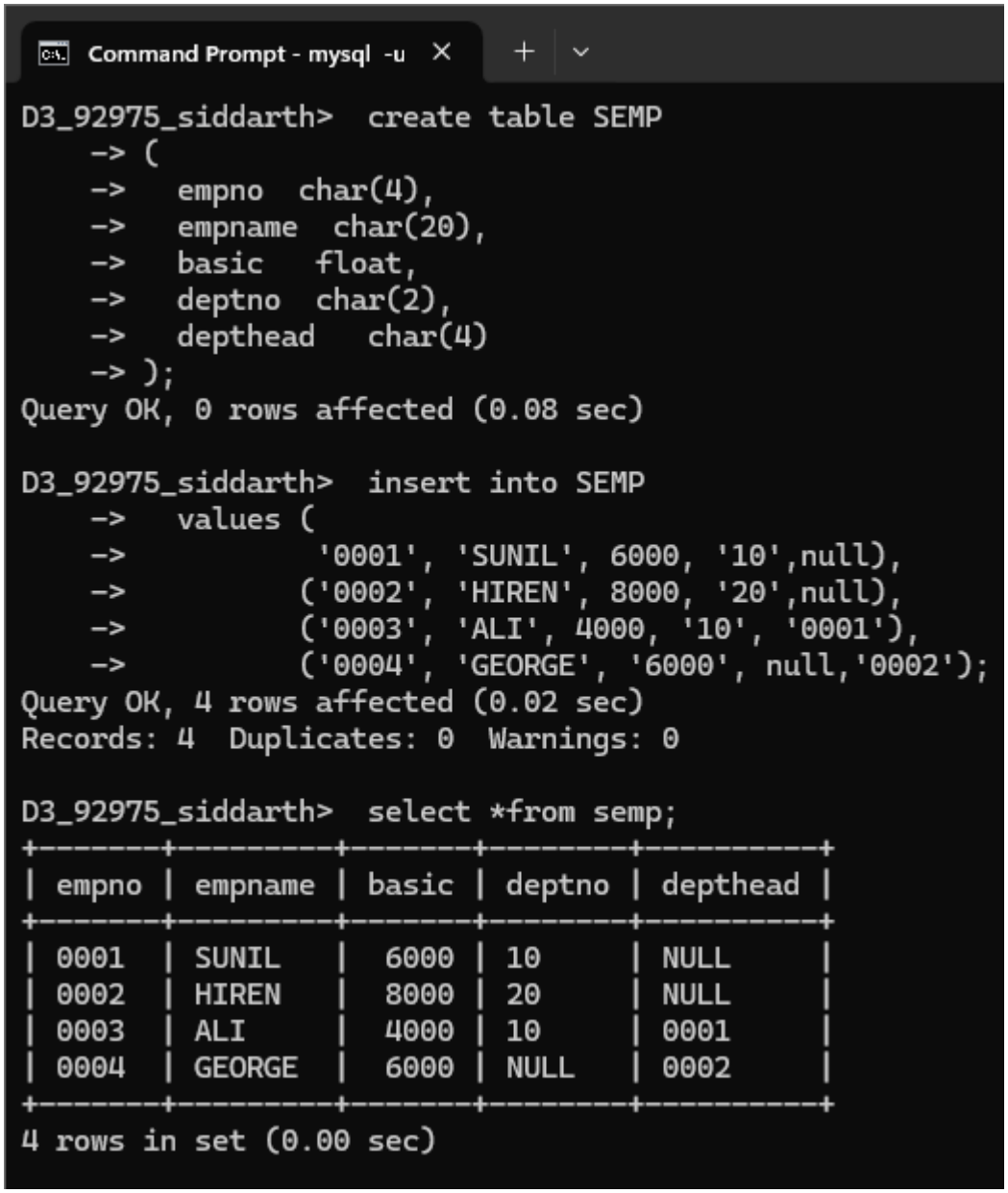
EMPNO	CHAR(4)
EMPNAME	CHAR(20)
BASIC	FLOAT
DEPTNO	CHAR(2)
DEPTHEAD	CHAR(4)

Query:-

```
create table SEMP
->  (
->     empno  char(4),
->     empname  char(20),
->      basic   float,
->     deptno  char(2),
->    depthead   char(4)
->      );
```

Table value query :-

```
D3_92975_siddarth>  insert into SEMP
-> values (
->  '0001', 'SUNIL', 6000, '10',null),
->  ('0002', 'HIREN', 8000, '20',null),
->  ('0003', 'ALI', 4000, '10', '0001'),
->  ('0004', 'GEORGE', '6000', null,'0002');
```



Query:-

create table SDEPT

-> (

-> deptno char(2),

-> deptname char(15)

->);

Table value query:-

```
insert into SDEPT
-> values
-> ( '10','Development'),
-> ('20','Training');
```

```
D3_92975_siddarth>create table SDEPT
    -> (
    ->  deptno char(2),
    -> deptname char(15)
    -> );
Query OK, 0 rows affected (0.03 sec)

D3_92975_siddarth>insert into SDEPT
    -> values
    -> ( '10','Development'),
    -> ('20','Training');
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0

D3_92975_siddarth> select *from SDEPT;
+--------+-------------+
| deptno | deptname    |
+--------+-------------+
| 10     | Development |
| 20     | Training    |
+--------+-------------+
2 rows in set (0.00 sec)
```

Creat table for Supplier:-

Query:-

```
create table s
-> (
->  `S#` char(2),
->  Sname char(15),
-> Status int(2),
->  city char(15)
-> );
```

Table value query:-

```
        insert into s
    -> values
    -> ( 'S1','Lalit',10,'London'),
    -> ('S2','Sumit',20,'Athens'),
    -> ('S3','Rohit',30,'Paris');
```

```
D3_92975_siddarth>
D3_92975_siddarth>insert into s
    -> values
    -> ( 'S1','Lalit',10,'London'),
    -> ('S2','Sumit',20,'Athens'),
    -> ('S3','Rohit',30,'Paris');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

D3_92975_siddarth>select *from s;
+------+-------+--------+--------+
| S#   | Sname | Status | city   |
+------+-------+--------+--------+
| S1   | Lalit |     10 | London |
| S2   | Sumit |     20 | Athens |
| S3   | Rohit |     30 | Paris  |
+------+-------+--------+--------+
3 rows in set (0.00 sec)
```

Create table for parts:-

Query:-

```
        create table P
    -> (
    ->   `P#`  char(2),
    ->   Pname char(30),
    ->   color   char(15),
    ->    weight int(2),
    ->    city  char(20)
    -> );
```

Table value query:-

```
          insert into P
    -> values (
    ->   'P1','screen','black',12,'Athens'),
    -> ('P2','mic','red',14,'Paris'),
    -> ('P3','camara','gray',16,'London');
```

```
D3_92975_siddarth>create table P
    -> (
    ->    `P#`  char(2)
    ->    , Pname char(30),
    ->    color   char(15),
    ->     weight int(2),
    ->     city  char(20)
    -> );
Query OK, 0 rows affected, 1 warning (0.03 sec)

D3_92975_siddarth> insert into P
    -> values (
    ->   'P1','screen','black',12,'Athens'),
    -> ('P2','mic','red',14,'Paris'),
    -> ('P3','camara','gray',16,'London');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

D3_92975_siddarth>select *from P;
+------+--------+-------+--------+--------+
| P#   | Pname  | color | weight | city   |
+------+--------+-------+--------+--------+
| P1   | screen | black |     12 | Athens |
| P2   | mic    | red   |     14 | Paris  |
| P3   | camara | gray  |     16 | London |
+------+--------+-------+--------+--------+
3 rows in set (0.00 sec)
```

Create table for project :-

Query:-

```
create table J
-> (
->  `J#` char(2),
-> Jname  char(30),
-> city  char(20)
-> );
```

Table value for J:-

```
insert into J
-> values
```

-> ('J1','Transport','London'),

-> ('J2','Manufature','paris'),

-> ('J3','Assamble','Athens');

```
D3_92975_siddarth>create table J
    -> (
    ->   `J#`  char(2),
    -> Jname  char(30),
    -> city  char(20)
    -> );
Query OK, 0 rows affected (0.03 sec)

D3_92975_siddarth>insert into J
    -> values
    -> ('J1','Transport','London'),
    -> ('J2','Manufature','paris'),
    -> ('J3','Assamble','Athens');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

D3_92975_siddarth>select *from J;
+------+-----------+--------+
| J#   | Jname     | city   |
+------+-----------+--------+
| J1   | Transport | London |
| J2   | Manufature | paris  |
| J3   | Assamble  | Athens |
+------+-----------+--------+
3 rows in set (0.00 sec)
```

Create table for SUPPLIER-PARTS-PROJECT:-

Query:-

create table spj

-> (

-> `S#` char(2),

-> `P#` char(2),

-> `J#` char(2),

-> ,Qty int(4)

->);

Table value for spj:-

```
insert into spj
 -> values
 -> ('S1','P1','J1',7),
 -> ('S2','P2','J2',8),
 -> ('S3','P3','J3',9);
```

```
D3_92975_siddarth>create table spj
    -> (
    -> `S#` char(2),
    -> `P#` char(2),
    -> `J#` char(2)
    -> , Qty int(4)
    -> );
Query OK, 0 rows affected, 1 warning (0.03 sec)

D3_92975_siddarth>insert into spj
    -> values
    -> ('S1','P1','J1',7),
    -> ('S2','P2','J2',8),
    -> ('S3','P3','J3',9);
Query OK, 3 rows affected (0.02 sec)
Records: 3  Duplicates: 0  Warnings: 0

D3_92975_siddarth>select *from spj;
+------+------+------+------+
| S#   | P#   | J#   | Qty  |
+------+------+------+------+
| S1   | P1   | J1   |    7 |
| S2   | P2   | J2   |    8 |
| S3   | P3   | J3   |    9 |
+------+------+------+------+
3 rows in set (0.00 sec)
```

5. Display all the data from the S table.

```
D3_92975_siddarth>select *from s;
+------+-------+--------+--------+
| S#   | Sname | Status | city   |
+------+-------+--------+--------+
| S1   | Lalit |     10 | London |
| S2   | Sumit |     20 | Athens |
| S3   | Rohit |     30 | Paris  |
+------+-------+--------+--------+
3 rows in set (0.00 sec)
```

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

```
D3_92975_siddarth>select `S#`,Sname from s;
+------+-------+
| S#   | Sname |
+------+-------+
| S1   | Lalit |
| S2   | Sumit |
| S3   | Rohit |
+------+-------+
3 rows in set (0.00 sec)
```

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

```
D3_92975_siddarth>select Pname, color from p
    -> where city='London';
+--------+-------+
| Pname  | color |
+--------+-------+
| camara | gray  |
+--------+-------+
1 row in set (0.00 sec)
```

8. Display all the Suppliers from London.

```
D3_92975_siddarth>select Sname from s
    -> where city = 'London';
+-------+
| Sname |
+-------+
| Lalit |
+-------+
1 row in set (0.00 sec)
```

9. Display all the Suppliers from Paris or Athens.

```
D3_92975_siddarth>select sname from s
    -> where city = 'Paris' or city ='Athens';
+-------+
| sname |
+-------+
| Sumit |
| Rohit |
+-------+
2 rows in set (0.00 sec)
```

10. Display all the Projects in Athens.

```
D3_92975_siddarth>select Pname from p
    -> where city = 'Athens';
+--------+
| Pname  |
+--------+
| screen |
+--------+
1 row in set (0.00 sec)
```

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

```
D3_92975_siddarth>select Pname from p
    -> where weight >=12 and weight <=14;
+--------+
| Pname  |
+--------+
| screen |
| mic    |
+--------+
2 rows in set (0.00 sec)
```

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

```
D3_92975_siddarth>select Sname from s
    -> where status>=20;
+-------+
| Sname |
+-------+
| Sumit |
| Rohit |
+-------+
2 rows in set (0.00 sec)
```

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

```
D3_92975_siddarth>select Sname from s
    -> where city != 'London';
+-------+
| Sname |
+-------+
| Sumit |
| Rohit |
+-------+
2 rows in set (0.00 sec)
```

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

```
D3_92975_siddarth>select city,Sname from s;
+--------+-------+
| city   | Sname |
+--------+-------+
| London | Lalit |
| Athens | Sumit |
| Paris  | Rohit |
+--------+-------+
3 rows in set (0.00 sec)
```

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

```
D3_92975_siddarth>select weight as gram,weight*1000 as milligram,weight*
0.001 as kilogram from p;
+------+-----------+----------+
| gram | milligram | kilogram |
+------+-----------+----------+
|   12 |     12000 |    0.012 |
|   14 |     14000 |    0.014 |
|   16 |     16000 |    0.016 |
+------+-----------+----------+
3 rows in set (0.00 sec)
```