

SQL 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 into the SDEPT table the following values:-

```
INSERT INTO SDEPT (DEPTNO, DEPTNAME) VALUES  
( '10', 'Development' ) , ( '20', 'Training');
```

4. Insert into the SEMP table the following values:-

```
INSERT INTO SEMP (EMPNO, EMPNAME, BASIC, DEPTNO) VALUES  
( '0001', 'SUNIL', 6000, '10'),  
( '0002', 'HIREN', 8000, '20');
```

```
INSERT INTO SEMP (EMPNO, EMPNAME, BASIC, DEPTNO, DEPTHEAD)  
VALUES ( '0003', 'ALI', 4000, '10', '0001'),  
( '0004', 'GEORGE', 6000, null, '0002');
```

Create S, P, J, SPJ tables as specified below and insert a few rows in each table:-

Write the SELECT queries to do the following:-

- select * from supplier;

- `select * from parts;`
- `select * from projects;`

5. Display all the data from the S table.

→ `mysql> select * from supplier;`

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

→ `mysql> select 'S#',Sname from supplier;`

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

→ `mysql> select Pname,Color from parts where City='London';`

8. Display all the Suppliers from London.

→ `mysql> select * from supplier where city='London';`

9. Display all the Suppliers from Paris or Athens.

→ `mysql> select * from supplier where city in('Paris','Athens');`

10. Display all the Projects in Athens.

→ `mysql> select * from projects where city='Athens';`

11. Display all the Partnames with the weight between 12 and 14 .

→ `mysql> select Pname from parts where Weight between 12 and 14;`

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

→ `mysql> select * from supplier where status >= 20;`

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

→ `mysql> select Sname from supplier where city not in('London');`

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

→ `mysql> select city from supplier;`

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

→ `mysql> select weight,weight*1000 as 'weight(in mg)',weight/1000 'weight(in kg)' from parts;`