## **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)
Ans
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)
Ans
create table SDEPT(
-> DEPTNO CHAR(2),
-> DEPTNAME CHAR(15));
3. Insert into the SDEPT table the following values:-
10, Development
20, Training Ans: insert into SDEPT values
-> (10, 'Development'),

```
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
  Ans:
insert into SEMP values
  -> (0001, 'SUNIL', 6000, 10, null),
  -> (0002, 'HIREN', 8000, 20, null),
  -> (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:-
 SUPPLIER
(S#, Sname, Status, City) - S
 PARTS
(P#, Pname, Color, Weight, City) - P
 PROJECTS
(J#, Jname, City) - J
 SUPPLIER-PARTS-PROJECT
(S#, P#, J#, Qty)
  - SPJ
Sample data for S# column:- 'S1', 'S2', 'S3', etc.
Sample data for P# column:- 'P1', 'P2', 'P3', etc.
Sample data for J# column:- 'J1', 'J2', 'J3', etc.
```

-> (20, 'Training');

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.

Ans: Select\* from SUPPLIER;

+	+	+	+
S#	Sname	Status	City
S1   S2   S3	Supplier1   Supplier2   Supplier3	10 20 30	London   Paris   Athens
3 rows	in set (0.00	sec)	

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

Ans: select `S#`, SNAME from SUPPLIER;

+	++
S#	SNAME
S1	Supplier1
S2	Supplier2
S3	Supplier3
+	++
3 rows	in set (0.00 sec)

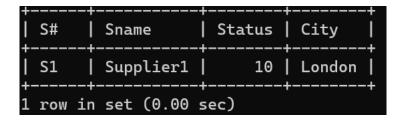
7. Display the PNAME and COLOR from the P table for the CITY="London".

**Ans:** SELECT Pname, Color FROM PARTS WHERE City = 'London';

```
+-----+
| Pname | Color |
+-----+
| Part1 | Red |
+-----+
1 row in set (0.00 sec)
```

8. Display all the Suppliers from London.

Ans: select\* Suppliers where City = 'London';



9. Display all the Suppliers from Paris or Athens.

Ans: select \* from Supplier where City in ('Paris','Athens');

+   S#	Sname	Status	   City
S2   S3	Supplier2   Supplier3		Paris     Athens
rows in set (0.01 sec)			

10. Display all the Projects in Athens.

Ans: select \* from PROJECTS where City='Athens';



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

Ans: select Pname from Parts where Weight between 12 and 14;



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

Ans: select \* from SUPPLIER where Status >= 20;

++   S#	Sname	Status	City
S2	Supplier2	20	Paris
S3	Supplier3	30	Athens

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

Ans: select \* from SUPPLIER where City <> 'London';

+		Status	+
S#	Sname		City
S2   S3 +	Supplier2   Supplier3	20 30	Paris     Athens

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

Ans: Select City from SUPPLIER;



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

Ans: select Pname, Weight\*1000 as MILLIGRAMS, Weight/1000 as KILOGRAMS from PARTS;

+   Pname	   MILLIGRAMS	KILOGRAMS
Part1	12500.00	0.012500
Part2	13000.00	0.013000
Part3	14000.00	0.014000