

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'),

-> (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

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.

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	Supplier1	10	London
S2	Supplier2	20	Paris
S3	Supplier3	30	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';

S#	Sname	Status	City
S1	Supplier1	10	London

1 row in set (0.00 sec)

9. Display all the Suppliers from Paris or Athens.

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

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

2 rows in set (0.01 sec)

10. Display all the Projects in Athens.

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

J#	Jname	City
J2	Project2	Athens

1 row in set (0.00 sec)

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;

Pname
Part1
Part2
Part3

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';

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

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

Ans: Select City from SUPPLIER;

City
London
Paris
Athens

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