

SQL Exercise 1

Qu. 1. Ans :

```
D5_Abhishek_83990>create table SEMP
-> (Empno char(4),
-> Empname char(20),
-> Basic float,
-> Deptno char(4),
-> Depthead char(4));
```

Qu. 2. Ans :

```
D5_Abhishek_83990>create table SDEPT(
-> DEPTNO char(4),
-> DEPTNAME char(15)
-> );
```

Qu. 3. Ans :

```
D5_Abhishek_83990>insert into SDEPT
-> values('10','Development'),
-> ('20','Training');
```

Qu. 4. Ans :

```
D5_Abhishek_83990>insert into SEMP (Empno,Empname,Basic,Deptno,Depthead)
-> values('0001','Sunil',6000,'10',null),
-> ('0002','Hiren',8000,'20',null),
-> ('0003','Ali',4000,'10',0001),
-> ('0004','George',6000,null,0002);
```

Creation of SUPPLIER table :

```
D5_Abhishek_83990>create table SUPPLIER(
-> `S#` char(4),
-> Sname char(20),
-> Status smallint,
-> City char(15)
-> );
```

Inserting into SUPPLIER table :

```
D5_Abhishek_83990>insert into SUPPLIER
-> values('S1','Smith',20,'London'),
-> ('S2','Jones',10,'Paris'),
-> ('S3','Blake',30,'Paris'),
-> ('S4','Clark',20,'London'),
-> ('S5','Adams',30,'Athens');
```

Creation of PARTS table :

```
D5_Abhishek_83990>create table PARTS(
-> `P#` char(6),
-> Pname char(20),
-> Color char(6),
-> Weight smallint,
-> City char(15)
-> );
```

Inserting into PARTS table :

```
D5_Abhishek_83990>insert into PARTS values
-> ('P1','Nut','Red',12,'London'),
-> ('P2','Bolt','Green',17,'Paris'),
-> ('P3','Screw','Blue',17,'Rome'),
-> ('P4','Screw','Red',14,'London'),
-> ('P5','Cam','Blue',12,'Paris'),
-> ('P6','Cog','Red',19,'London');
```

Creation of PROJECTS table :

```
D5_Abhishek_83990>create table PROJECTS(
-> `J#` char(4),
-> Jname char(10),
-> City char(15)
-> );
```

Inserting into PROJECTS table :

```
D5_Abhishek_83990>insert into PROJECTS values
-> ('J1','Sorter','Paris'),
-> ('J2','Punch','Rome'),
-> ('J3','Reader','Athens'),
-> ('J4','Console','Athens'),
-> ('J5','Collator','London'),
-> ('J6','Terminal','Oslo'),
-> ('J7','Tape','London');
```

Creation of SUPPLIER_PARTS_PROJECT table :

```
D5_Abhishek_83990>create table SUPPLIER_PARTS_PROJECT
-> ('S#` char(4),
-> `P#` char(4),
-> `J#` char(4),
-> QTY int);
```

Inserting into SUPPLIER_PARTS_PROJECT table :

```
D5_Abhishek_83990>insert into SUPPLIER_PARTS_PROJECT values
-> ('S1','P1','J1',200),
-> ('S1','P1','J4',700),
-> ('S2','P3','J1',400),
-> ('S2','P3','J2',200),
-> ('S2','P3','J3',200),
-> ('S2','P3','J4',500),
-> ('S2','P3','J5',600),
-> ('S2','P3','J6',400),
-> ('S2','P3','J7',800),
-> ('S2','P5','J2',100),
-> ('S3','P3','J1',200),
-> ('S3','P4','J2',500),
-> ('S4','P6','J3',300),
-> ('S4','P6','J7',300),
-> ('S5','P2','J2',100),
-> ('S5','P2','J4',100),
-> ('S5','P5','J5',500),
-> ('S5','P5','J7',100),
-> ('S5','P6','J2',200),
-> ('S5','P1','J4',100),
-> ('S5','P3','J4',200),
-> ('S5','P4','J4',400),
-> ('S5','P5','J4',800),
-> ('S5','P6','J4',500);
```

Qu. 5. Ans :

```
D5_Abhishek_83990>select
-> * from SUPPLIER;
+-----+-----+-----+-----+
| S#    | Sname | Status | City    |
+-----+-----+-----+-----+
| S1    | Smith | 20     | London  |
| S2    | Jones | 10     | Paris   |
| S3    | Blake | 30     | Paris   |
| S4    | Clark | 20     | London  |
| S5    | Adams | 30     | Athens  |
+-----+-----+-----+-----+
```

Qu. 6. Ans :

```
D5_Abhishek_83990>select 'S#',Sname from SUPPLIER;
+-----+-----+
| S# | Sname |
+-----+-----+
| S# | Smith |
| S# | Jones |
| S# | Blake |
| S# | Clark |
| S# | Adams |
+-----+-----+
```

Qu. 7. Ans :

```
D5_Abhishek_83990>select Pname,Color from PARTS
-> where City = 'London';
+-----+-----+
| Pname | Color |
+-----+-----+
| Nut   | Red   |
| Screw | Red   |
| Cog   | Red   |
+-----+-----+
```

Qu. 8. Ans :

```
D5_Abhishek_83990>select * from SUPPLIER
-> where city = "London" ;
+-----+-----+-----+-----+
| S#   | Sname | Status | City   |
+-----+-----+-----+-----+
| S1   | Smith | 20     | London |
| S4   | Clark | 20     | London |
+-----+-----+-----+-----+
```

Qu. 9. Ans :

```
D5_Abhishek_83990>select * from SUPPLIER
-> where city = 'Paris' or city = 'Athens';
+-----+-----+-----+-----+
| S#   | Sname | Status | City   |
+-----+-----+-----+-----+
| S2   | Jones | 10     | Paris  |
| S3   | Blake | 30     | Paris  |
| S5   | Adams | 30     | Athens |
+-----+-----+-----+-----+
```

Qu. 10. Ans :

```
D5_Abhishek_83990>select * from PROJECTS
-> where city = 'Athens';
+-----+-----+-----+
| J#    | Jname  | City   |
+-----+-----+-----+
| J3    | Reader | Athens |
| J4    | Console| Athens |
+-----+-----+-----+
```

Qu. 11. Ans :

```
D5_Abhishek_83990>select *from PARTS
-> where weight between 12 and 14;
+-----+-----+-----+-----+-----+
| P#    | Pname  | Color  | Weight | City   |
+-----+-----+-----+-----+-----+
| P1    | Nut    | Red    | 12     | London |
| P4    | Screw  | Red    | 14     | London |
| P5    | Cam    | Blue   | 12     | Paris  |
+-----+-----+-----+-----+-----+
```

Qu. 12. Ans :

```
D5_Abhishek_83990>select *from SUPPLIER
-> where status >= 20;
+-----+-----+-----+-----+
| S#    | Sname  | Status | City   |
+-----+-----+-----+-----+
| S1    | Smith  | 20     | London |
| S3    | Blake  | 30     | Paris  |
| S4    | Clark  | 20     | London |
| S5    | Adams  | 30     | Athens |
+-----+-----+-----+-----+
```

Qu. 13. Ans :

```
D5_Abhishek_83990>select * from SUPPLIER
-> where city != 'London';
+-----+-----+-----+-----+
| S#    | Sname  | Status | City   |
+-----+-----+-----+-----+
| S2    | Jones  | 10     | Paris  |
| S3    | Blake  | 30     | Paris  |
| S5    | Adams  | 30     | Athens |
+-----+-----+-----+-----+
```

Qu. 14. Ans :

```
D5_Abhishek_83990>select city from SUPPLIER;
+-----+
| city   |
+-----+
| London |
| Paris  |
| Paris  |
| London |
| Athens |
+-----+
```

Qu. 15. Ans :

```
D5_Abhishek_83990>select weight, weight*0.001 as MILLIGRAM,weight*1000 as KILOGRAM from PARTS;
+-----+-----+-----+
| weight | MILLIGRAM | KILOGRAM |
+-----+-----+-----+
|      12 |      0.012 |     12000 |
|      17 |      0.017 |     17000 |
|      17 |      0.017 |     17000 |
|      14 |      0.014 |     14000 |
|      12 |      0.012 |     12000 |
|      19 |      0.019 |     19000 |
+-----+-----+-----+
```