

```

W2_87325_Rajvardhan>CREATE TABLE IF NOT EXISTS SEMP(
-> EMPNO CHAR(4) PRIMARY KEY,
-> EMPNAME CHAR(20),
-> BASIC FLOAT,
-> DEPTNO CHAR(2),
-> DEPTHREAD CHAR(4) DEFAULT '0');
Query OK, 0 rows affected (0.02 sec)

```

```

W2_87325_Rajvardhan>DESC SEMP;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| EMPNO | char(4) | NO | PRI | NULL | |
| EMPNAME | char(20) | YES | | NULL | |
| BASIC | float | YES | | NULL | |
| DEPTNO | char(2) | YES | | NULL | |
| DEPTHREAD | char(4) | YES | | 0 | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

W2_87325_Rajvardhan>CREATE TABLE IF NOT EXISTS SDEPT(
-> DEPTNO CHAR(2) PRIMARY KEY,
-> DEPTNAME CHAR(15) NOT NULL);
Query OK, 0 rows affected (0.01 sec)

```

```

W2_87325_Rajvardhan>DESC SDEPT;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| DEPTNO | char(2) | NO | PRI | NULL | |
| DEPTNAME | char(15) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

```

W2_87325_Rajvardhan>INSERT INTO SDEPT(
-> DEPTNO,DEPTNAME)
-> VALUES(
-> 10,'DEVELOPMENT'),
-> (20,'TRAINING');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

```

```

W2_87325_Rajvardhan>SELECT * FROM SDEPT;
+-----+-----+
| DEPTNO | DEPTNAME |
+-----+-----+
| 10 | DEVELOPMENT |
| 20 | TRAINING |
+-----+-----+
2 rows in set (0.00 sec)

```

```
W2_87325_Rajvardhan>INSERT INTO SEMP(EMPNO,EMPNAME,BASIC,DEPTNO)
-> VALUES
-> (0001, 'SUNIL', 6000, 10),
-> (0002,'HIREN',8000,20);
```

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

```
W2_87325_Rajvardhan>INSERT INTO SEMP(EMPNO,EMPNAME,BASIC,DEPTNO,DEPTHEAD)
-> VALUES('0003','ALI',4000,'10','0001');
```

Query OK, 1 row affected (0.01 sec)

```
W2_87325_Rajvardhan>INSERT INTO SEMP(EMPNO,EMPNAME,BASIC,DEPTHEAD)
-> VALUES('0004','GEORGE',6000,'0002');
```

Query OK, 1 row affected (0.00 sec)

```
W2_87325_Rajvardhan>SELECT * FROM SEMP;
```

EMPNO	EMPNAME	BASIC	DEPTNO	DEPTHEAD
0003	ALI	4000	10	0001
0004	GEORGE	6000	NULL	0002
1	SUNIL	6000	10	0
2	HIREN	8000	20	0

4 rows in set (0.00 sec)

```

W2_87325_Rajvardhan>CREATE TABLE IF NOT EXISTS S (
->   'S#' CHAR(5) NOT NULL,
->   Sname CHAR(20),
->   Status SMALLINT,
->   City CHAR(15)
-> );

```

Query OK, 0 rows affected (0.02 sec)

```

W2_87325_Rajvardhan>DESC S;

```

Field	Type	Null	Key	Default	Extra
S#	char(5)	NO		NULL	
Sname	char(20)	YES		NULL	
Status	smallint	YES		NULL	
City	char(15)	YES		NULL	

4 rows in set (0.00 sec)

```

W2_87325_Rajvardhan>INSERT INTO S ('S#', Sname, Status, City) VALUES

```

```

->   ('S1', 'Smith', 20, 'London'),
->   ('S2', 'Jones', 10, 'Paris'),
->   ('S3', 'Blake', 30, 'Paris'),
->   ('S4', 'Clark', 20, 'London'),
->   ('S5', 'Adams', 30, 'Athens');

```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

```

W2_87325_Rajvardhan>SELECT * FROM S;

```

S#	Sname	Status	City
S1	Smith	20	London
S2	Jones	10	Paris
S3	Blake	30	Paris
S4	Clark	20	London
S5	Adams	30	Athens

5 rows in set (0.00 sec)

```

W2_87325_Rajvardhan>CREATE TABLE IF NOT EXISTS P (
->   'P#' CHAR(6) NOT NULL,
->   Pname CHAR(20),
->   Color CHAR(6),
->   Weight SMALLINT,
->   City CHAR(15)
-> );

```

Query OK, 0 rows affected (0.02 sec)

```

W2_87325_Rajvardhan>DESC P;

```

Field	Type	Null	Key	Default	Extra
P#	char(6)	NO		NULL	
Pname	char(20)	YES		NULL	
Color	char(6)	YES		NULL	
Weight	smallint	YES		NULL	
City	char(15)	YES		NULL	

5 rows in set (0.00 sec)

```

W2_87325_Rajvardhan>INSERT INTO P ('P#', Pname, Color, Weight, City) 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');

```

Query OK, 6 rows affected (0.01 sec)  
Records: 6 Duplicates: 0 Warnings: 0

```

W2_87325_Rajvardhan>SELECT * FROM P;

```

P#	Pname	Color	Weight	City
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

6 rows in set (0.00 sec)

```

W2_87325_Rajvardhan>CREATE TABLE IF NOT EXISTS J (
-> 'J#' CHAR(4) NOT NULL,
-> Jname CHAR(10),
-> City CHAR(15)
-> );

```

Query OK, 0 rows affected (0.02 sec)

```

W2_87325_Rajvardhan>DESC J;

```

Field	Type	Null	Key	Default	Extra
J#	char(4)	NO		NULL	
Jname	char(10)	YES		NULL	
City	char(15)	YES		NULL	

3 rows in set (0.00 sec)

```

W2_87325_Rajvardhan>INSERT INTO J (`J#`, Jname, City) VALUES
->      ('J1', 'Sorter', 'Paris'),
->      ('J2', 'Punch', 'Rome'),
->      ('J3', 'Reader', 'Athens'),
->      ('J4', 'Console', 'Athens'),
->      ('J5', 'Collator', 'London'),
->      ('J6', 'Terminal', 'Oslo'),
->      ('J7', 'Printer', 'London');
Query OK, 7 rows affected (0.01 sec)
Records: 7  Duplicates: 0  Warnings: 0

```

```

W2_87325_Rajvardhan>SELECT * FROM J;

```

J#	Jname	City
J1	Sorter	Paris
J2	Punch	Rome
J3	Reader	Athens
J4	Console	Athens
J5	Collator	London
J6	Terminal	Oslo
J7	Printer	London

```

7 rows in set (0.00 sec)

```

```

W2_87325_Rajvardhan>CREATE TABLE IF NOT EXISTS SP (
->      `S#` CHAR(4) NOT NULL,
->      `P#` CHAR(4) NOT NULL,
->      `J#` CHAR(4) NOT NULL,
->      QTY INT
-> );

```

```

Query OK, 0 rows affected (0.02 sec)

```

```

W2_87325_Rajvardhan>DESC SP;

```

Field	Type	Null	Key	Default	Extra
S#	char(4)	NO		NULL	
P#	char(4)	NO		NULL	
J#	char(4)	NO		NULL	
QTY	int	YES		NULL	

```

4 rows in set (0.00 sec)

```

```

W2_87325_Rajvardhan>INSERT INTO SP
-> ('S1', 'J1', 'P1', 200),
-> ('S1', 'J2', 'P2', 700),
-> ('S1', 'J2', 'P3', 400),
-> ('S1', 'J2', 'P4', 200),
-> ('S1', 'J2', 'P5', 200),
-> ('S2', 'J3', 'P6', 500),
-> ('S2', 'J2', 'P1', 600),
-> ('S2', 'J4', 'P2', 400),
-> ('S3', 'J5', 'P3', 800),
-> ('S3', 'J2', 'P4', 100),
-> ('S3', 'J4', 'P5', 200),
-> ('S4', 'J4', 'P6', 500),
-> ('S4', 'J4', 'P1', 300),
-> ('S4', 'J4', 'P2', 300),
-> ('S5', 'J1', 'P3', 100),
-> ('S5', 'J1', 'P4', 100),
-> ('S5', 'J5', 'P5', 500),
-> ('S5', 'J1', 'P6', 100),
-> ('S5', 'J2', 'P1', 200),
-> ('S5', 'J2', 'P2', 100),
-> ('S5', 'J2', 'P3', 200),
-> ('S5', 'J4', 'P4', 400),
-> ('S5', 'J4', 'P5', 800),
-> ('S5', 'J5', 'P6', 500);
Query OK, 24 rows affected (0.01 sec)
Records: 24 Duplicates: 0 Warning

```

```

W2_87325_Rajvardhan>SELECT * FROM SP;
+----+-----+-----+-----+
| S# | P# | J# | QTY |
+----+-----+-----+-----+
| S1 | P1 | J1 | 200 |
| S1 | P2 | J2 | 700 |
| S1 | P3 | J2 | 400 |
| S1 | P4 | J2 | 200 |
| S1 | P5 | J2 | 200 |
| S2 | P6 | J3 | 500 |
| S2 | P1 | J2 | 600 |
| S2 | P2 | J4 | 400 |
| S3 | P3 | J5 | 800 |
| S3 | P4 | J2 | 100 |
| S3 | P5 | J4 | 200 |
| S4 | P6 | J4 | 500 |
| S4 | P1 | J4 | 300 |
| S4 | P2 | J4 | 300 |
| S5 | P3 | J1 | 100 |
| S5 | P4 | J1 | 100 |
| S5 | P5 | J5 | 500 |
| S5 | P6 | J1 | 100 |
| S5 | P1 | J2 | 200 |
| S5 | P2 | J2 | 100 |
| S5 | P3 | J2 | 200 |
| S5 | P4 | J4 | 400 |
| S5 | P5 | J4 | 800 |
| S5 | P6 | J5 | 500 |
+----+-----+-----+-----+
24 rows in set (0.00 sec)

```

```

W2_87325_Rajvardhan>SELECT `S#`,SNAME FROM S;
+----+-----+
| S# | SNAME |
+----+-----+
| S1 | Smith |
| S2 | Jones |
| S3 | Blake |
| S4 | Clark |
| S5 | Adams |
+----+-----+
5 rows in set (0.00 sec)

```

```

W2_87325_Rajvardhan>SELECT PNAME, COLOR FROM P;
+-----+-----+
| PNAME | COLOR |
+-----+-----+
| Nut   | Red   |
| Bolt  | Green |
| Screw | Blue  |
| Screw | Red   |
| Cam   | Blue  |
| Cog   | Red   |
+-----+-----+
6 rows in set (0.00 sec)

```

```
W2_87325_Rajvardhan>SELECT * FROM S WHERE CITY='LONDON';
```

```
+-----+-----+-----+-----+
| S# | Sname | Status | City |
+-----+-----+-----+-----+
| S1 | Smith | 20 | London |
| S4 | Clark | 20 | London |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
W2_87325_Rajvardhan>SELECT * FROM S WHERE CITY='PARIS' OR CITY='ATHENS';
```

```
+-----+-----+-----+-----+
| S# | Sname | Status | City |
+-----+-----+-----+-----+
| S2 | Jones | 10 | Paris |
| S3 | Blake | 30 | Paris |
| S5 | Adams | 30 | Athens |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
W2_87325_Rajvardhan>SELECT * FROM P WHERE CITY='ATHENS';
Empty set (0.00 sec)
```

```
W2_87325_Rajvardhan>SELECT PNAME FROM P WHERE WEIGHT BETWEEN 12 AND 14;
```

```
+-----+
| PNAME |
+-----+
| Nut |
| Screw |
| Cam |
+-----+
3 rows in set (0.01 sec)
```

```
W2_87325_Rajvardhan>SELECT * FROM S WHERE STATUS >= 20;
```

```
+-----+-----+-----+-----+
| S# | Sname | Status | City |
+-----+-----+-----+-----+
| S1 | Smith | 20 | London |
| S3 | Blake | 30 | Paris |
| S4 | Clark | 20 | London |
| S5 | Adams | 30 | Athens |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
W2_87325_Rajvardhan>SELECT * FROM S WHERE CITY!='LONDON';
```

```
+-----+-----+-----+-----+
| S# | Sname | Status | City |
+-----+-----+-----+-----+
| S2 | Jones | 10 | Paris |
| S3 | Blake | 30 | Paris |
| S5 | Adams | 30 | Athens |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
W2_87325_Rajvardhan>SELECT CITY FROM S;
```

```
+-----+  
| CITY |  
+-----+  
| London |  
| Paris |  
| Paris |  
| London |  
| Athens |  
+-----+
```

```
5 rows in set (0.00 sec)
```

```
W2_87325_Rajvardhan>SELECT `P#`, Pname, Color, Weight AS Grams, Weight * 100  
0 AS Milligrams, Weight / 1000 AS Kilograms  
-> FROM P;
```

```
+-----+-----+-----+-----+-----+-----+  
| P# | Pname | Color | Grams | Milligrams | Kilograms |  
+-----+-----+-----+-----+-----+-----+  
| P1 | Nut | Red | 12 | 12000 | 0.0120 |  
| P2 | Bolt | Green | 17 | 17000 | 0.0170 |  
| P3 | Screw | Blue | 17 | 17000 | 0.0170 |  
| P4 | Screw | Red | 14 | 14000 | 0.0140 |  
| P5 | Cam | Blue | 12 | 12000 | 0.0120 |  
| P6 | Cog | Red | 19 | 19000 | 0.0190 |  
+-----+-----+-----+-----+-----+-----+
```

```
6 rows in set (0.00 sec)
```