

## Experiment 5

```
mysql> USE SUPPLY;
Database changed
mysql> CREATE TABLE Supplier (
  ->     scode INT PRIMARY KEY,
  ->     sname VARCHAR(100),
  ->     scity VARCHAR(50),
  ->     turnover DECIMAL(10, 2)
  -> );
Query OK, 0 rows affected (0.04 sec)

mysql>
mysql> CREATE TABLE Part (
  ->     pcode INT PRIMARY KEY,
  ->     weight DECIMAL(10, 2),
  ->     cost DECIMAL(10, 2),
  ->     sellingprice DECIMAL(10, 2)
  -> );
Query OK, 0 rows affected (0.04 sec)

mysql>
mysql> CREATE TABLE Supplier_Part (
  ->     scode INT,
  ->     pcode INT,
  ->     qty INT,
  ->     PRIMARY KEY (scode, pcode),
  ->     FOREIGN KEY (scode) REFERENCES Supplier(scode),
  ->     FOREIGN KEY (pcode) REFERENCES Part(pcode)
  -> );
```

```
mysql> INSERT INTO Supplier (scode, sname, scity, turnover) VALUES
-> (1, 'Supplier A', 'Bombay', 50.00),
-> (2, 'Supplier B', 'Delhi', 75.00),
-> (3, 'Supplier C', 'Bangalore', NULL),
-> (4, 'Supplier D', 'Hyderabad', 65.00),
-> (5, 'Supplier E', 'Bombay', 85.00);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql>
mysql>
mysql> INSERT INTO Part (pcode, weight, cost, sellingprice) VALUES
-> (1, 30.00, 20.00, 30.00),
-> (2, 25.00, 15.00, 25.00),
-> (3, 35.00, 40.00, 50.00),
-> (4, 28.00, 30.00, 45.00),
-> (5, 22.00, 10.00, 20.00);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql>
mysql>
mysql> INSERT INTO Supplier_Part (scode, pcode, qty) VALUES
-> (1, 1, 300),
-> (1, 2, 200),
-> (2, 3, 400),
-> (3, 4, 150),
-> (4, 5, 100),
-> (5, 1, 300);
Query OK, 6 rows affected (0.01 sec)
```

```
mysql> -- Get the supplier number and part number in ascending order of supplier number:--
```

```
mysql>
mysql> SELECT scode, pcode
-> FROM Supplier_Part
-> ORDER BY scode ASC;
```

scode	pcode
1	1
1	2
2	3
3	4
4	5
5	1

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

```
mysql>
mysql>
mysql> -- Get the details of suppliers who operate from Bombay with a turnover of 50:--
```

```
mysql>
mysql> SELECT *
-> FROM Supplier
-> WHERE scity = 'Bombay' AND turnover = 50;
```

scode	sname	scity	turnover
1	Supplier A	Bombay	50.00

```
1 row in set (0.00 sec)
```

```
mysql> -- Get the total number of suppliers:--
mysql>
mysql> SELECT COUNT(*) AS Total_Suppliers
-> FROM Supplier;
+-----+
| Total_Suppliers |
+-----+
| 5 |
+-----+
1 row in set (0.00 sec)
```

```
mysql>
mysql>
mysql> -- Get the part numbers weighing between 25 and 35:--
mysql>
mysql> SELECT pcode
-> FROM Part
-> WHERE weight BETWEEN 25 AND 35;
+-----+
| pcode |
+-----+
| 1 |
| 2 |
| 3 |
| 4 |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> -- Get the supplier number whose turnover is NULL:--
mysql>
mysql> SELECT scode
-> FROM Supplier
-> WHERE turnover IS NULL;
+-----+
| scode |
+-----+
| 3 |
+-----+
1 row in set (0.00 sec)
```

```
mysql>
mysql>
mysql> -- Get the part number that costs 20, 30, or 40 rupees:--
mysql>
mysql> SELECT pcode
-> FROM Part
-> WHERE cost IN (20, 30, 40);
+-----+
| pcode |
+-----+
| 1 |
| 3 |
| 4 |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> -- Get the total quantity of part 2 that is supplied:--
```

```
mysql>
```

```
mysql> SELECT SUM(qty) AS Total_Quantity  
-> FROM Supplier_Part  
-> WHERE pcode = 2;
```

```
+-----+  
| Total_Quantity |  
+-----+
```

```
| 200 |  
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql>
```

```
mysql>
```

```
mysql> -- Get the name of the supplier who supplies part 2:--
```

```
mysql>
```

```
mysql> SELECT S.sname  
-> FROM Supplier S  
-> JOIN Supplier_Part SP ON S.scode = SP.scode  
-> WHERE SP.pcode = 2;
```

```
+-----+  
| sname |  
+-----+
```

```
| Supplier A |  
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql>
```

```
mysql>
```

```
mysql> -- Get the part number whose cost is greater than the average cost:--
```

```
mysql>
```

```
mysql> SELECT pcode  
-> FROM Part  
-> WHERE cost > (SELECT AVG(cost) FROM Part);
```

```
+-----+  
| pcode |  
+-----+
```

```
| 3 |  
| 4 |  
+-----+
```

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

```
mysql>
```

```
mysql>
```

```
mysql> -- Get the supplier number and turnover in descending order of turnover:--
```

```
mysql>
```

```
mysql> SELECT scode, turnover  
-> FROM Supplier  
-> ORDER BY turnover DESC;
```

```
+-----+-----+  
| scode | turnover |  
+-----+-----+
```

```
| 5 | 85.00 |  
| 2 | 75.00 |  
| 4 | 65.00 |  
| 1 | 50.00 |  
| 3 | NULL |  
+-----+-----+
```

```
| 5 | 85.00 |  
| 2 | 75.00 |  
| 4 | 65.00 |  
| 1 | 50.00 |  
| 3 | NULL |  
+-----+-----+
```

```
| 5 | 85.00 |  
| 2 | 75.00 |  
| 4 | 65.00 |  
| 1 | 50.00 |  
| 3 | NULL |  
+-----+-----+
```

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

```
mysql>
```