

Experiment 5

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Batch- 2

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```

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 rows in set (0.00 sec)

```
mysql>
```