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Lab 3

Create the following table.

Supplier-(scode,sname,scity,turnover)

Part-(pcode,weigh,color,cost,sellingprice)

Supplier_Part-(scode,pcode,qty)

```
mysql> select * from supplier;
+-------+-------+--------+----------+
| scode | sname | scity  | turnover |
+-------+-------+--------+----------+
|     1 | Smith | London |  2000000 |
|     2 | Jones | Paris  |  3000000 |
|     3 | Blake | Paris  |  2500000 |
|     4 | clark | London |  3500000 |
|     5 | adams | Athens |  4000000 |
+-------+-------+--------+----------+
5 rows in set (0.00 sec)

mysql> select * from part;
+-------+--------+-------+------+-------------+
| pcode | weight | color | cost | sellingprice |
+-------+--------+-------+------+-------------+
|     1 |     12 | Red   |    3 |           5 |
|     2 |     17 | Green |    1 |           3 |
|     3 |     17 | Blue  |    2 |           5 |
|     4 |     14 | Red   |    3 |           8 |
+-------+--------+-------+------+-------------+
4 rows in set (0.00 sec)

mysql> select * from supplier_part
    -> ;
+-------+-------+------+
| scode | pcode | qty  |
+-------+-------+------+
|     1 |     1 |  300 |
|     1 |     2 |  200 |
|     1 |     3 |  400 |
|     1 |     4 |  200 |
|     2 |     1 |  400 |
|     2 |     2 |  300 |
|     3 |     2 |  200 |
+-------+-------+------+
7 rows in set (0.00 sec)
```

Ques1: Get the supplier number and part number in ascending order of supplier number.

```
mysql> select scode,pcode,sname from supplier,part
    -> where supplier.scode = part.pcode
    -> order by scode;
+-------+-------+-------+
| scode | pcode | sname |
+-------+-------+-------+
|     1 |     1 | Smith |
|     2 |     2 | Jones |
|     3 |     3 | Blake |
|     4 |     4 | clark |
+-------+-------+-------+
4 rows in set (0.00 sec)
```

Lab 3

Ques2: Get the details of supplier who operate from Bombay with turnover 50.

```
mysql> select * from supplier
    -> where scity = "London" and turnover >= 3500000;
+-------+-------+--------+----------+
| scode | sname | scity  | turnover |
+-------+-------+--------+----------+
|     4 | clark | London |  3500000 |
+-------+-------+--------+----------+
1 row in set (0.01 sec)
```

Ques3: Get the total number of suppliers.

```
mysql> select count(*) from supplier;
+----------+
| count(*) |
+----------+
|        5 |
+----------+
1 row in set (0.01 sec)
```

Ques4: the part number weighing between 25 and 35.

```
mysql> select pcode from part
    -> where weight >= 14 and weight <= 20;
+-------+
| pcode |
+-------+
|     2 |
|     3 |
|     4 |
+-------+
3 rows in set (0.00 sec)
```

Ques5: Get the supplier number whose turnover is null.

```
mysql> select sname from supplier
    -> where turnover = NULL;
Empty set (0.01 sec)
```

Ques6: Get the part number that cost 20, 30 or 40 rupees.

```
mysql> select pcode from part
    -> where sellingprice IN (3,8);
+-------+
| pcode |
+-------+
|     2 |
|     4 |
+-------+
2 rows in set (0.00 sec)
```

Lab 3

Ques7: Get the total quantity of part 2 that is supplied.

```
mysql> select sname from supplier
    -> where scode in (select scode from supplier_part where pcode = 2);
+-------+
| sname |
+-------+
| Smith |
| Jones |
| Blake |
+-------+
3 rows in set (0.00 sec)
```

Ques8: Get the name of supplier who supply part 2.

```
mysql> select pcode, sum(qty) from supplier_part
    -> group by pcode
    -> having pcode = 2;
+-------+----------+
| pcode | sum(qty) |
+-------+----------+
|     2 |      700 |
+-------+----------+
1 row in set (0.00 sec)
```

Ques9: Get the part number whose cost is greater than the average cost.

```
mysql> select pcode from part
    -> where cost > (select avg(cost) from part);
+-------+
| pcode |
+-------+
|     1 |
|     4 |
+-------+
2 rows in set (0.01 sec)
```

Ques10: Get the supplier number and turnover in descending order of turnover.

```
mysql> select scode, turnover from supplier
    -> order by turnover;
+-------+----------+
| scode | turnover |
+-------+----------+
|     1 |  2000000 |
|     3 |  2500000 |
|     2 |  3000000 |
|     4 |  3500000 |
|     5 |  4000000 |
+-------+----------+
```