NAME: RAHUL DHANOLA ***ROLL NUMBER:R177219139*** ***BATCH:4***

EXPERIMENT NO:- 03

OBJECTIVE: **To understand the use of sql subquery.**

- **CREATE THE FOLLOWING TABLE:**

  SUPPLIER-(SCODE,SNAME,SCITY,TURNOVER)

```
SQL> CREATE TABLE SUPPLIER(
  2  SCODE VARCHAR(30) PRIMARY KEY,
  3  SNAME VARCHAR(30),
  4  SCITY VARCHAR(30),
  5  TURNOVER INT);

Table created.
```

  PART-(PCODE,WEIGH,COLOR,COST,SELLINGPRICE)

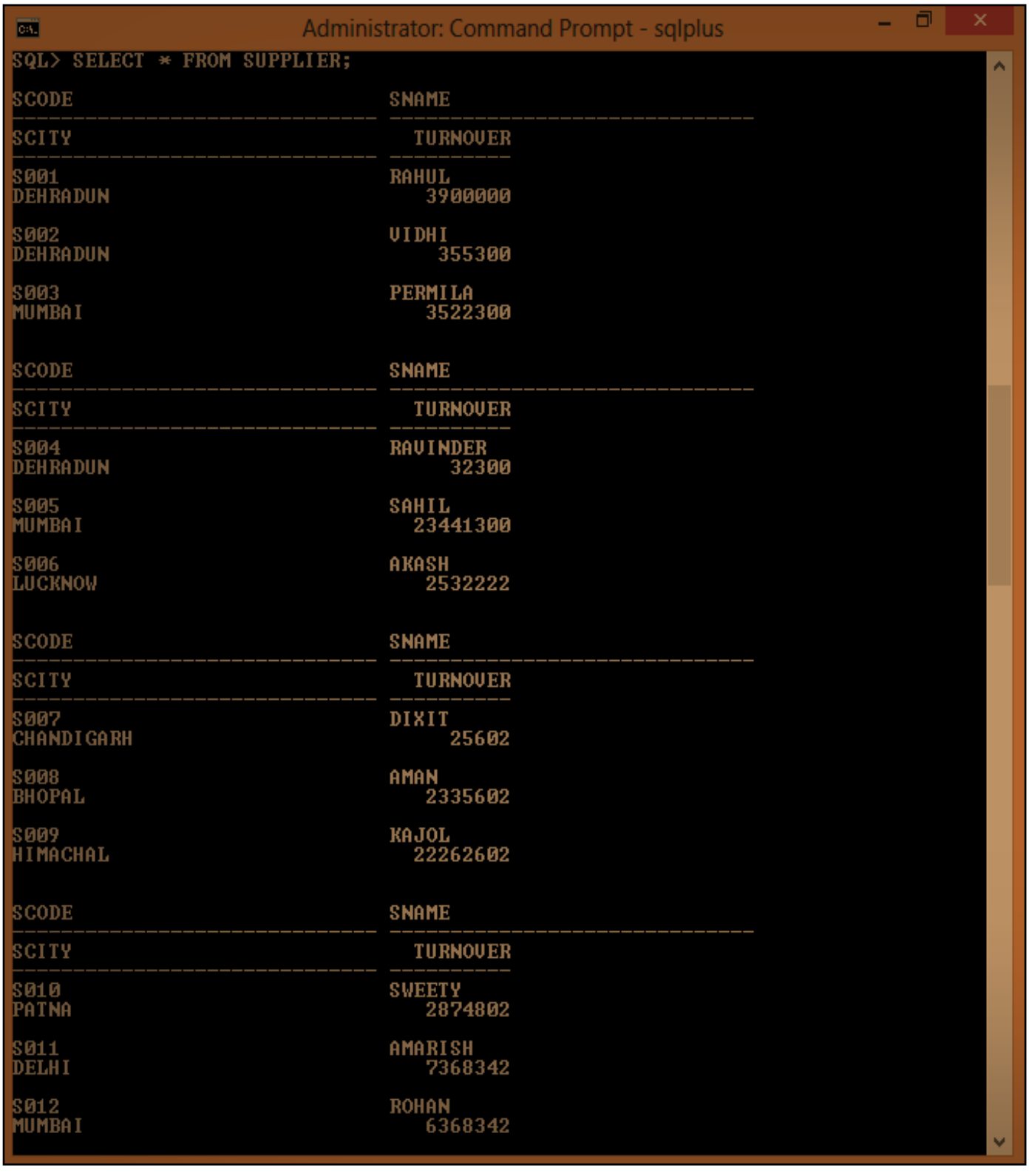
```
SQL> CREATE TABLE PART(
  2  PCODE VARCHAR(30) PRIMARY KEY,
  3  WEIGH DECIMAL (10,2),
  4  COLOR VARCHAR(20),
  5  COSTPRICE INT,
  6  SELLINGPRICE INT);

Table created.

SQL>
```

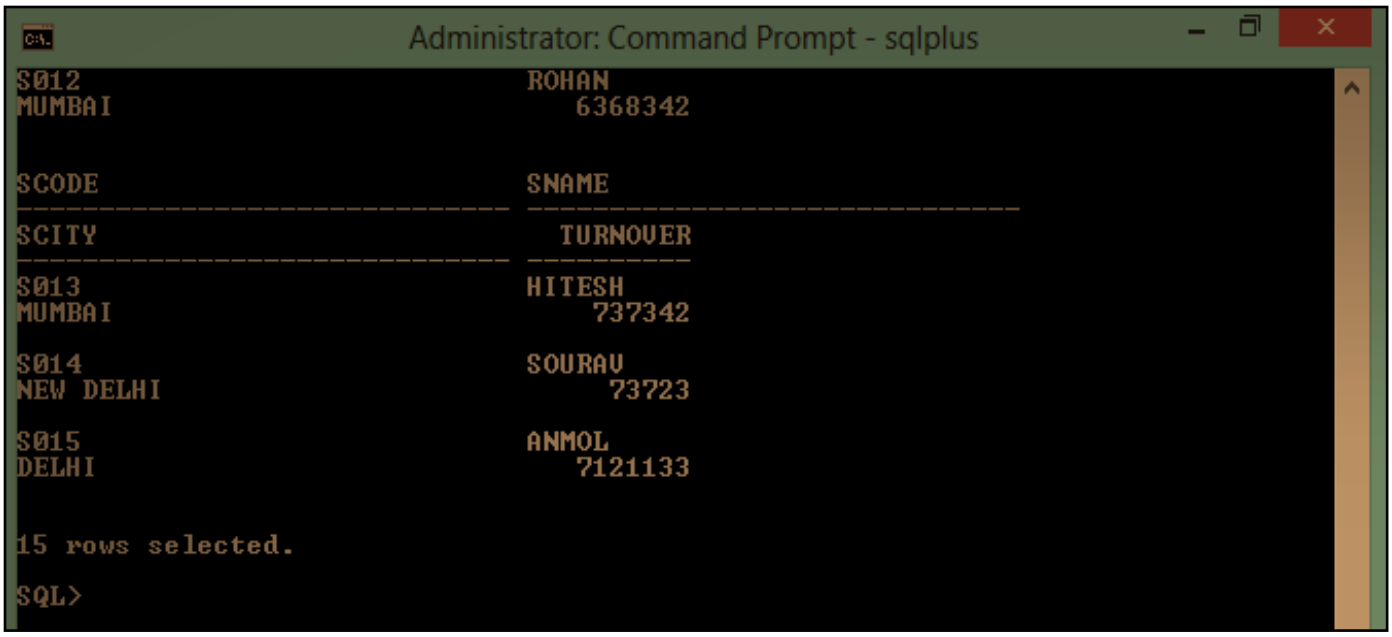
  SUPPLIER_PART-(SCODE,PCODE,QTY)

```
SQL> CREATE TABLE SUPPLIER_PART(
  2  SCODE VARCHAR(20),
  3  PCODE VARCHAR(20),
  4  QTY INT,
  5  PRIMARY KEY (SCODE,PCODE),
  6  FOREIGN KEY(SCODE)
  7  REFERENCES SUPPLIER(SCODE),
  8  FOREIGN KEY(PCODE)
  9  REFERENCES PART(PCODE));

Table created.

SQL>
```

- **POPULATE THE TABLE:**

1. **TABLE SUPPLIER:**


Administrator: Command Prompt - sqlplus
SQL> SELECT * FROM SUPPLIER;
SCODE SNAME
SCITY TURNOVER
S001 RAHUL
DEHRADUN 3900000
S002 VIDHI
DEHRADUN 355300
S003 PERMILA
MUMBAI 3522300
SCODE SNAME
SCITY TURNOVER
S004 RAVINDER
DEHRADUN 32300
S005 SAHIL
MUMBAI 23441300
S006 AKASH
LUCKNOW 2532222
SCODE SNAME
SCITY TURNOVER
S007 DIXIT
CHANDIGARH 25602
S008 AMAN
BHOPAL 2335602
S009 KAJOL
HIMACHAL 22262602
SCODE SNAME
SCITY TURNOVER
S010 SWEETY
PATNA 2874802
S011 AMARISH
DELHI 7368342
S012 ROHAN
MUMBAI 6368342



2. **TABLE PART:**

```
mysql> select * from part;
+-------+-------+---------+------------+--------------+
| pcode | weigh | color   | costprice | seeingprice |
+-------+-------+---------+------------+--------------+
| p001  | 10.00 | black   |        500 |          750 |
| p002  | 15.00 | white   |        550 |          700 |
| p003  | 15.00 | purple  |        430 |          500 |
| p004  | 12.00 | black   |        600 |         1000 |
| p005  | 11.00 | white   |        600 |          800 |
| p006  | 17.00 | blue    |        600 |         1500 |
| p007  | 18.00 | pink    |       1700 |         2500 |
| p008  | 10.00 | blue    |        300 |          500 |
| p009  |  5.00 | red     |        300 |         1000 |
| p010  |  4.00 | yello   |         30 |          100 |
| p011  | 10.00 | green   |        700 |         1000 |
| p012  | 20.00 | green   |        850 |         1000 |
| p013  | 45.00 | black   |        850 |          900 |
| p014  |  4.00 | white   |       1000 |         1100 |
| p015  |  6.00 | black   |         70 |          100 |
+-------+-------+---------+------------+--------------+
15 rows in set (0.00 sec)
```

3. **TABLE SUPPLIER_PART:**

```
mysql> select * from supplier_part;
+--------+--------+-------+
| scode  | pcode  | qty   |
+--------+--------+-------+
| s001   | p001   |    10 |
| s002   | p002   |    20 |
| s003   | p003   |     5 |
| s004   | p004   |    30 |
| s005   | p005   |    70 |
| s006   | p006   |    85 |
| s007   | p007   |   100 |
| s008   | p009   |   300 |
| s009   | p010   |   250 |
| s010   | p011   |   450 |
| s011   | p012   |    50 |
| s012   | p013   |   150 |
| s013   | p014   |   750 |
| s014   | p015   |  1000 |
| s015   | p008   |  1200 |
+--------+--------+-------+
15 rows in set (0.10 sec)
```

- **WRITE APPROPRIATE SQL STATEMENTS FOR THE FOLLOWING:**

1. GET THE SUPPLIER NUMBER AND PART NUMBER IN ASCENDING ORDER OF SUPPLIER NUMBER.

```
mysql> select * from supplier_part order by 'scode' asc;
+--------+--------+-------+
| scode  | pcode  | qty   |
+--------+--------+-------+
| s001   | p001   |    10 |
| s002   | p002   |    20 |
| s003   | p003   |     5 |
| s004   | p004   |    30 |
| s005   | p005   |    70 |
| s006   | p006   |    85 |
| s007   | p007   |   100 |
| s008   | p009   |   300 |
| s009   | p010   |   250 |
| s010   | p011   |   450 |
| s011   | p012   |    50 |
| s012   | p013   |   150 |
| s013   | p014   |   750 |
| s014   | p015   |  1000 |
| s015   | p008   |  1200 |
+--------+--------+-------+
15 rows in set (0.00 sec)
```

2. GET THE DETAILS OF SUPPLIER WHO OPERATE FROM BOMBAY WITH TURNOVER 50.

```
+-------+---------+-------+----------+
| scode | sname   | scity | turnover |
+-------+---------+-------+----------+
| S015  | harshal | delhi |    14500 |
+-------+---------+-------+----------+
1 row in set (0.15 sec)
```

3. GET THE TOTAL NUMBER OF SUPPLIER.

```
+-----------+
| count(*)  |
+-----------+
|        15 |
+-----------+
1 row in set (0.35 sec)
```

4. GET THE PART NUMBER WEIGHING BETWEEN 25 AND 35.

```
+-------+
| pcode |
+-------+
| p001  |
| p002  |
| p003  |
| p004  |
| p005  |
| p008  |
| p011  |
+-------+
7 rows in set (0.10 sec)
```

5. GET THE SUPPLIER NUMBER WHOSE TURNOVER IS NULL.

```
+-------+--------+-------+----------+
| scode | sname  | scity | turnover |
+-------+--------+-------+----------+
| S009  | falgun | patna |    20000 |
+-------+--------+-------+----------+
1 row in set (0.00 sec)
```

6. GET THE PART NUMBER THAT COST 20, 30 OR 40 RUPEES.

pcode	weigh	color	costprice	seeingprice
p001	10.00	black	500	750
p004	12.00	black	600	1000
p005	11.00	white	600	800
p006	17.00	blue	600	1500
p008	10.00	blue	300	500
p009	5.00	red	300	1000

6 rows in set (0.00 sec)

7. GET THE TOTAL QUANTITY OF PART 2 THAT IS SUPPLIED.

qty
20

1 row in set (0.15 sec)

8. GET THE NAME OF SUPPLIER WHO SUPPLY PART 2.

sname
nandit

1 row in set (0.00 sec)

9. GET THE PART NUMBER WHOSE COST IS GREATER THAN THE AVERAGE COST.

```
+---------+
| pcode   |
+---------+
| p007    |
| p011    |
| p012    |
| p013    |
| p014    |
+---------+
5 rows in set (0.00 sec)
```

10. GET THE SUPPLIER NUMBER AND TURNOVER IN DESCENDING ORDER OF TURNOVER.

```
+---------+-----------+
| scode   | turnover  |
+---------+-----------+
| S011    |    620000 |
| S003    |    325000 |
| S002    |    300000 |
| S006    |    275000 |
| S008    |    235000 |
| S001    |    200000 |
| S005    |    175000 |
| S013    |    160000 |
| S010    |    120000 |
| S004    |     75000 |
| S012    |     60000 |
| S007    |     35000 |
| S009    |     20000 |
| S014    |     16500 |
| S015    |     14500 |
+---------+-----------+
15 rows in set (0.00 sec)
```