

QUESTION NO 05 [CHEATS DBMS]

Q.5 We have following relations:

supplier(s#,sname,status,city)

parts(p#,pname,color,weight,city)

sp(s#,p#,quantity)

Answer the following queries in SQL,

i)Find name of supplier for city='delhi'

ii)Find suppliers whose name start with 'AB'

iii)Find all suppliers whose status in 10,20 or 30

iv) Find total number of city of all supplies

v)Find S# of supplier who supplies 'red' part

vi)count number of supplier who supplies'red' part

vii)sort the supplier table by sname

ANSWER :-

```
suppadmin1@admin1-OptiPlex-Tower-7010:~$ sudo su;
```

```
[sudo] password for admin1:
```

```
root@admin1-OptiPlex-Tower-7010:/home/admin1# sudo mysql -u root -p
```

```
Enter password:
```

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
```

```
Your MySQL connection id is 8
```

```
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
```

```
+-----+
| Database          |
+-----+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+-----+
```

```
4 rows in set (0.03 sec)
```

```
mysql> create database cheat5;  
Query OK, 1 row affected (0.06 sec)
```

```
mysql> use cheat5;  
Database changed  
mysql> create table supplier(sid int primary key,sname varchar(20),status long,city long);  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> desc supplier;  
+-----+-----+-----+-----+-----+  
| Field | Type      | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+  
| sid   | int       | NO   | PRI | NULL    |       |  
| sname | varchar(20) | YES  |     | NULL    |       |  
| status | mediumtext | YES  |     | NULL    |       |  
| city  | mediumtext | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+  
4 rows in set (0.00 sec)
```

```
mysql> insert into supplier values(1,"rushikesh",10,"delhi");  
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into supplier values(2,"meghraj",20,"mumbai");  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into supplier values(3,"ismail",30,"kolkata");  
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into supplier values(4,"pravin",40,"pune");  
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into supplier values(5,"varad",50,"maxico");  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from supplier;  
+-----+-----+-----+-----+  
| sid | sname   | status | city   |  
+-----+-----+-----+-----+  
| 1 | rushikesh | 10    | delhi  |  
| 2 | meghraj  | 20    | mumbai |  
| 3 | ismail   | 30    | kolkata |  
| 4 | pravin   | 40    | pune   |  
| 5 | varad    | 50    | maxico |  
+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

```
mysql> create table parts(pid int primary key,pname varchar(255),color long,weight int,city long);  
Query OK, 0 rows affected (0.10 sec)
```

```
mysql> desc parts;
```

```
+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| pid   | int       | NO   | PRI | NULL    |       |
| pname | varchar(255) | YES  |     | NULL    |       |
| color | mediumtext | YES  |     | NULL    |       |
| weight | int       | YES  |     | NULL    |       |
| city  | mediumtext | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> insert into parts values(1,"chair","red",45,"mumbai");
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into parts values(2,"table","blue",54,"pune");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into parts values(3,"elbow part","pink",23,"kolkata");
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into parts values(4,"pc","yellow",78,"maxico");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into parts values(5,"study material","black",110,"delhi");
Query OK, 1 row affected (0.07 sec)
```

```
mysql> select * from parts;
```

```
+-----+-----+-----+-----+-----+
| pid | pname      | color | weight | city  |
+-----+-----+-----+-----+-----+
| 1 | chair      | red   | 45 | mumbai |
| 2 | table      | blue  | 54 | pune   |
| 3 | elbow part | pink  | 23 | kolkata |
| 4 | pc         | yellow | 78 | maxico |
| 5 | study material | black | 110 | delhi |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> create table sp(sid int,pid int,quantity int, foreign key(sid) references supplier(sid),foreign
key(pid) references parts(pid));
Query OK, 0 rows affected (0.11 sec)
```

```
mysql> desc sp;
```

```
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| sid   | int  | YES  | MUL | NULL    |       |
```

pid	int	YES	MUL	NULL		
quantity	int	YES		NULL		

3 rows in set (0.00 sec)

```
mysql> insert into sp values(1,5,20);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into sp values(2,1,24);
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into sp values(3,3,42);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into sp values(4,2,65);
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into sp values(5,4,1035);
Query OK, 1 row affected (0.07 sec)
```

```
mysql> select * from sp;
```

sid	pid	quantity
1	5	20
2	1	24
3	3	42
4	2	65
5	4	1035

5 rows in set (0.00 sec)

```
mysql> select sname from supplier where city="delhi";
```

sname
rushikesh

1 row in set (0.01 sec)

```
mysql> select sname from supplier where sname like "AB%";
Empty set (0.00 sec)
```

```
mysql> select * from supplier where status in(10 or 20 or 30);
Empty set (0.00 sec)
```

```
mysql> select * from supplier where status in(10,20,30);
```

sid	sname	status	city
-----	-------	--------	------

```

+-----+-----+-----+-----+
| 1 | rushikesh | 10 | delhi |
| 2 | meghraj | 20 | mumbai |
| 3 | ismail | 30 | kolkata |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

mysql> select count(distinct city) as cit_count from supplier;

```

+-----+
| cit_count |
+-----+
| 5 |
+-----+

```

1 row in set (0.00 sec)

mysql> select s.sid from supplier s join sp on s.sid=sp.sid join parts p on sp.pid=p.pid where p.color="red";

```

+-----+
| sid |
+-----+
| 2 |
+-----+

```

1 row in set (0.00 sec)

mysql> select count(distinct s.sid)as supplier_number

```

-> from supplier s
-> join sp on s.sid=sp.sid
-> join parts p on sp.pid=p.pid
-> where p.color="red";

```

```

+-----+
| supplier_number |
+-----+
| 1 |
+-----+

```

1 row in set (0.00 sec)

mysql> select * from supplier order by sname;

```

+-----+-----+-----+-----+
| sid | sname | status | city |
+-----+-----+-----+-----+
| 3 | ismail | 30 | kolkata |
| 2 | meghraj | 20 | mumbai |
| 4 | pravin | 40 | pune |
| 1 | rushikesh | 10 | delhi |
| 5 | varad | 50 | maxico |
+-----+-----+-----+-----+

```

5 rows in set (0.00 sec)