

Question no. 03 [cheats dbms]

Q.3 Create table Student as shown below

Sid	Sname	Marks	city
1	AAA	60	PUNE
2	BBB	70	MUMBAI
3	CCC	90	PUNE
4	DDD	55	MUMBAI
5	EEE	84	CHENNAI

Evaluate any 5 Queries on above DB

- 1.Find the total marks of each student in each city
- 2.Find the total marks of each student in the city names 'pune' and 'mumbai'only
- 3.Find the name of student whose city is chennai
- 4.Find distinct city from above table
- 5.Find sid ,sname,city from student where sname="BBB" and city="mumbai"
- 6.Find sid ,sname,city from student where city="mumbai" or "pune"
- 7.Display sid,sname,city from student with city not equal to pune
- 8.Find all the student names starting with letter "A"

ANSWER :-

```
admin1@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      |  
+-----+  
| assi10        |  
| information_schema |  
| mysql          |  
| performance_schema |  
| student        |  
| sys            |  
+-----+
```

```
6 rows in set (0.01 sec)
```

```
mysql> create database cheat3;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> show databases;
```

```
+-----+  
| Database      |  
+-----+  
| assi10        |  
| cheat3         |  
| information_schema |  
| mysql          |  
| performance_schema |  
| student        |  
| sys            |  
+-----+
```

```
7 rows in set (0.01 sec)
```

```
mysql> use cheat3;
```

```
Database changed
```

```
mysql> create table student(sid int,sname varchar(20),marks int,city varchar(20));
```

```
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> insert into student values(1,"AAA",60,"PUNE");
```

```
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into student values(2,"BBB",70,"MUMBAI");
```

```
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into student values(3,"CCC",90,"PUNE");
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student values(4,"DDD",55,"MUMBAI");
```

```
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into student values(5,"EEE",84,"CHENNAI");
```

Query OK, 1 row affected (0.07 sec)

mysql> SELECT * FROM student;

sid	sname	marks	city
1	AAA	60	PUNE
2	BBB	70	MUMBAI
3	CCC	90	PUNE
4	DDD	55	MUMBAI
5	EEE	84	CHENNAI

5 rows in set (0.00 sec)

mysql> desc student;

Field	Type	Null	Key	Default	Extra
sid	int	YES		NULL	
sname	varchar(20)	YES		NULL	
marks	int	YES		NULL	
city	varchar(20)	YES		NULL	

4 rows in set (0.00 sec)

mysql> SELECT sid,sname, SUM(marks) AS TOTAL_MARKS, city
-> FROM student
-> GROUP BY sid,sname,city;

sid	sname	TOTAL_MARKS	city
1	AAA	60	PUNE
2	BBB	70	MUMBAI
3	CCC	90	PUNE
4	DDD	55	MUMBAI
5	EEE	84	CHENNAI

5 rows in set (0.06 sec)

mysql> SELECT sid,sname, SUM(marks) AS TOTAL_MARKS
-> FROM student
-> WHERE city IN ("PUNE","MUMBAI")
-> GROUP BY sid,sname;

sid	sname	TOTAL_MARKS
1	AAA	60
2	BBB	70
3	CCC	90

```
| 4 | DDD | 55 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> SELECT sname FROM student WHERE city="CHENNAI";
+-----+
| sname |
+-----+
| EEE   |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT DISTINCT city FROM student;
+-----+
| city |
+-----+
| PUNE |
| MUMBAI |
| CHENNAI |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT sid,sname,city FROM student WHERE sname="BBB" AND city="MUMBAI";
+-----+-----+-----+
| sid | sname | city |
+-----+-----+-----+
| 2 | BBB | MUMBAI |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT sid,sname,city FROM student WHERE city="MUMBAI" OR "PUNE";
+-----+-----+-----+
| sid | sname | city |
+-----+-----+-----+
| 2 | BBB | MUMBAI |
| 4 | DDD | MUMBAI |
+-----+-----+-----+
2 rows in set, 1 warning (0.00 sec)
```

```
mysql> SELECT sid,sname,city FROM student WHERE city="MUMBAI" OR city="PUNE";
+-----+-----+-----+
| sid | sname | city |
+-----+-----+-----+
| 1 | AAA | PUNE |
| 2 | BBB | MUMBAI |
| 3 | CCC | PUNE |
| 4 | DDD | MUMBAI |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> SELECT sid,sname,city FROM student WHERE city != "PUNE";
```

```
+-----+-----+-----+  
| sid | sname | city |  
+-----+-----+-----+  
|  2 | BBB  | MUMBAI |  
|  4 | DDD  | MUMBAI |  
|  5 | EEE  | CHENNAI |  
+-----+-----+-----+
```

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

```
mysql> SELECT sid,sname,city FROM student WHERE sname LIKE "A%";
```

```
+-----+-----+-----+  
| sid | sname | city |  
+-----+-----+-----+  
|  1 | AAA  | PUNE |  
+-----+-----+-----+
```

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

```
mysql>
```