

Microsoft Windows [Version 10.0.19041.630]

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C:\Users\Suman Darjee>mysql -u root

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

Your MariaDB connection id is 8

Server version: 10.4.13-MariaDB mariadb.org binary distribution

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

MariaDB [(none)]> create database Collmgmtsys;

Query OK, 1 row affected (0.018 sec)

MariaDB [(none)]> use collmgmtsys;

Database changed

MariaDB [collmgmtsys]> create table student;

ERROR 1113 (42000): A table must have at least 1 column

MariaDB [collmgmtsys]> create table student(snum int primary key, name varchar(30), major
varchar(30), level varchar(20), age int);

Query OK, 0 rows affected (0.678 sec)

MariaDB [collmgmtsys]> desc student

-> ;

Field	Type	Null	Key	Default	Extra
snum	int(11)	NO	PRI	NULL	
name	varchar(30)	YES		NULL	
major	varchar(30)	YES		NULL	

level	varchar(20)	YES	NULL	
-------	-------------	-----	------	--

age	int(11)	YES	NULL	
-----	---------	-----	------	--

+-----+	+-----+	+-----+	+-----+	+-----+
---------	---------	---------	---------	---------

5 rows in set (0.117 sec)

MariaDB [collmgmtsys]> insert into student(snum, name, major, level, age) values(101,'susan gurung', 'software', 'bachelor', 24);

Query OK, 1 row affected (0.506 sec)

MariaDB [collmgmtsys]> insert into student values(102, 'sam kc','computer
> ', 'bachelor',23);

Query OK, 1 row affected (0.098 sec)

MariaDB [collmgmtsys]> insert into student values(103,'hari rai', 'electronics', 'masters', 25);

Query OK, 1 row affected (0.116 sec)

MariaDB [collmgmtsys]> insert into student values(104,'gopal shrestha ', 'software', 'bachelor', 26);

Query OK, 1 row affected (0.188 sec)

MariaDB [collmgmtsys]> select *from student;

+-----+	+-----+	+-----+	+-----+	+-----+
---------	---------	---------	---------	---------

snum	name	major	level	age
------	------	-------	-------	-----

+-----+	+-----+	+-----+	+-----+	+-----+
---------	---------	---------	---------	---------

101	susan gurung	software	bachelor	24
-----	--------------	----------	----------	----

102	sam kc	computer		
-----	--------	----------	--	--

bachelor	23
----------	----

103	hari rai	electronics	masters	25
-----	----------	-------------	---------	----

104	gopal shrestha	software	bachelor	26
-----	----------------	----------	----------	----

+-----+	+-----+	+-----+	+-----+	+-----+
---------	---------	---------	---------	---------

4 rows in set (0.041 sec)

MariaDB [collmgmtsys]> create table class(name varchar(20), time varchar(20), room varchar(10),
fid varchar(10) primary key);

Query OK, 0 rows affected (0.726 sec)

MariaDB [collmgmtsys]> desc class;

Field	Type	Null	Key	Default	Extra
name	varchar(20)	YES		NULL	
time	varchar(20)	YES		NULL	
room	varchar(10)	YES		NULL	
fid	varchar(10)	NO	PRI	NULL	

4 rows in set (0.031 sec)

MariaDB [collmgmtsys]> select *from class;

Empty set (0.001 sec)

MariaDB [collmgmtsys]> insert into class (name , time, room, fid) values('c++', 'm9-10', 'r3', 'f501');

Query OK, 1 row affected (0.083 sec)

MariaDB [collmgmtsys]> insert into class values('maths', 'm8-9', 'r4', 'f505');

Query OK, 1 row affected (0.059 sec)

MariaDB [collmgmtsys]> insert into class values('c++', 'e5-6', 'r7', 'f501');

ERROR 1062 (23000): Duplicate entry 'f501' for key 'PRIMARY'

MariaDB [collmgmtsys]> alter table class drop primary key;

Query OK, 2 rows affected (1.398 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [collmgmtsys]> desc class;

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

```

+-----+-----+-----+-----+
| name | varchar(20) | YES | | NULL | |
| time | varchar(20) | YES | | NULL | |
| room | varchar(10) | YES | | NULL | |
| fid | varchar(10) | NO | | NULL | |
+-----+-----+-----+-----+

```

4 rows in set (0.034 sec)

MariaDB [collmgmtsys]> insert into class values('c++', 'e5-6', 'r7', 'f501');

Query OK, 1 row affected (0.093 sec)

MariaDB [collmgmtsys]> insert into class values('physics', 'e5-6', 'r6', 'f508');

Query OK, 1 row affected (0.129 sec)

MariaDB [collmgmtsys]> create table enrolled(snam int, classname varchar(20));

Query OK, 0 rows affected (0.472 sec)

MariaDB [collmgmtsys]> insert into enrolled (snam , classname) values(101, 'c++');

Query OK, 1 row affected (0.099 sec)

MariaDB [collmgmtsys]> insert into enrolled values(102, 'c++');

Query OK, 1 row affected (0.106 sec)

MariaDB [collmgmtsys]> insert into enrolled values(103, 'physics');

Query OK, 1 row affected (0.080 sec)

MariaDB [collmgmtsys]> insert into enrolled values(104, 'maths');

Query OK, 1 row affected (0.163 sec)

MariaDB [collmgmtsys]> create table faculty (fid varchar(10), name varchar(30), dept varchar(20));

Query OK, 0 rows affected (0.454 sec)

```
MariaDB [collmgmtsys]> insert into faculty(fid, name, dept) values('f501', 'b.shrestha', 'computer');
```

```
Query OK, 1 row affected (0.094 sec)
```

```
MariaDB [collmgmtsys]> insert into faculty values('f505', 'r.thapa', 'maths');
```

```
Query OK, 1 row affected (0.323 sec)
```

```
MariaDB [collmgmtsys]> insert into faculty values('f508', 's.tamrakar', 'computer');
```

```
Query OK, 1 row affected (0.107 sec)
```

```
MariaDB [collmgmtsys]> insert into faculty values('f509', 'p.acharya', 'science');
```

```
Query OK, 1 row affected (0.080 sec)
```

```
MariaDB [collmgmtsys]> desc enrolled;
```

```
+-----+-----+-----+-----+-----+-----+
| Field  | Type    | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| snam   | int(11) | YES  |     | NULL    |       |
| classname | varchar(20) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

```
2 rows in set (0.042 sec)
```

```
MariaDB [collmgmtsys]> alter table enrolled change snam snum int;
```

```
Query OK, 0 rows affected (0.201 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [collmgmtsys]> desc enrolled;
```

```
+-----+-----+-----+-----+-----+-----+
| Field  | Type    | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| snum   | int(11) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

```
| classname | varchar(20) | YES | | NULL | |
```

```
+-----+-----+-----+-----+-----+
```

2 rows in set (0.037 sec)

MariaDB [collmgmtsys]> select *from student where major ='software';

```
+-----+-----+-----+-----+-----+
```

```
| snum | name      | major | level | age |
```

```
+-----+-----+-----+-----+-----+
```

```
| 101 | susan gurung | software | bachelor | 24 |
```

```
| 104 | gopal shrestha | software | bachelor | 26 |
```

```
+-----+-----+-----+-----+-----+
```

2 rows in set (0.058 sec)

MariaDB [collmgmtsys]> select name, age, major from student;

```
+-----+-----+-----+
```

```
| name      | age | major |
```

```
+-----+-----+-----+
```

```
| susan gurung | 24 | software |
```

```
| sam kc      | 23 | computer
```

```
|
```

```
| hari rai    | 25 | electronics |
```

```
| gopal shrestha | 26 | software |
```

```
+-----+-----+-----+
```

4 rows in set (0.001 sec)

MariaDB [collmgmtsys]> select * student where major='software' and age>=25;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'student where major='software' and age>=25' at line 1

MariaDB [collmgmtsys]> select * from student where major='software' and age>=25;

```
+-----+-----+-----+-----+-----+
```

```
| snum | name      | major | level | age |
```

```

+-----+-----+-----+-----+
| 104 | gopal shrestha | software | bachelor | 26 |
+-----+-----+-----+-----+
1 row in set (0.130 sec)

```

MariaDB [collmgmtsys]> select name from student where name like ('s%');

```

+-----+
| name   |
+-----+
| susan gurung |
| sam kc   |
+-----+
2 rows in set (0.039 sec)

```

MariaDB [collmgmtsys]> select name from student where name like ('_.T%');

Empty set (0.001 sec)

MariaDB [collmgmtsys]> select name from faculty where name like ('_.T%');

```

+-----+
| name   |
+-----+
| r.thapa |
| s.tamrakar |
+-----+
2 rows in set (0.001 sec)

```

MariaDB [collmgmtsys]> select name ,time from class where time='e5-6';

```

+-----+-----+
| name  | time |
+-----+-----+
| c++   | e5-6 |

```

```
| physics | e5-6 |
```

```
+-----+-----+
```

2 rows in set (0.001 sec)

```
MariaDB [collmgmtsys]> select * from faculty order by dept,fid;
```

```
+-----+-----+-----+
```

```
| fid | name    | dept  |
```

```
+-----+-----+-----+
```

```
| f501 | b.shrestha | computer |
```

```
| f508 | s.tamrakar | computer |
```

```
| f505 | r.thapa   | maths   |
```

```
| f509 | p.acharya | science |
```

```
+-----+-----+-----+
```

4 rows in set (0.073 sec)

```
MariaDB [collmgmtsys]> select name from class where room='r3' or class.fid =(select fid from faculty where name = "b.sheresta");
```

```
+-----+
```

```
| name |
```

```
+-----+
```

```
| c++ |
```

```
+-----+
```

1 row in set (0.056 sec)

```
MariaDB [collmgmtsys]> select name from student where snum in (select snum from enrolled where classname ='c++');
```

```
+-----+
```

```
| name    |
```

```
+-----+
```

```
| susan gurung |
```

```
| sam kc      |
```

```
+-----+
```


2 rows in set (0.065 sec)

MariaDB [collmgmtsys]> select name,dept from faculty where dept='computer';

```
+-----+-----+
| name   | dept   |
+-----+-----+
| b.shrestha | computer |
| s.tamrakar | computer |
+-----+-----+
```

2 rows in set (0.001 sec)

MariaDB [collmgmtsys]> select name,dept from faculty where fid in (select fid from class where time like "5-6");

Empty set (0.009 sec)

MariaDB [collmgmtsys]> select avg(age) as averageAge from student where level='bachelor';

```
+-----+
| averageAge |
+-----+
| 24.3333 |
+-----+
```

1 row in set (0.030 sec)

MariaDB [collmgmtsys]> select classname from enrolled where snum=(select snum from student where name = 'sam kc');

```
+-----+
| classname |
+-----+
| c++      |
+-----+
```

1 row in set (0.097 sec)

```
MariaDB [collmgmtsys]> select name from student where snum not in (select snum from enrolled
where classname in (select name from class where fid in (select fid from faculty where name =
'b.shrestha')));
```

```
+-----+
```

```
| name      |
```

```
+-----+
```

```
| hari rai   |
```

```
| gopal shrestha |
```

```
+-----+
```

```
2 rows in set (0.210 sec)
```

```
MariaDB [collmgmtsys]> update class set time ='m7-8' where room ='r3';
```

```
Query OK, 1 row affected (0.091 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [collmgmtsys]> select name from student where major in ('software', 'computer');
```

```
+-----+
```

```
| name      |
```

```
+-----+
```

```
| susan gurung |
```

```
| gopal shrestha |
```

```
+-----+
```

```
2 rows in set (0.001 sec)
```

```
MariaDB [collmgmtsys]> delete from student where age>25;
```

```
Query OK, 1 row affected (0.058 sec)
```