

```
mysql> create database reshushetty;
```

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

```
mysql> use reshushetty;
```

```
Database changed
```

```
mysql> create table department(departmentid int primary key,departmentname varchar(50));
```

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

```
mysql> create table students(studentid int primary key,studentname varchar(50),gender char(1) check (gender in ('M','F')),departmentid int,foreign key(departmentid)references department(departmentid));
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> create table teacher(teacherid int primary key,subjectname varchar(50),departmentid int,foreign key(departmentid)references department(departmentid));
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> alter table students
```

```
-> add age int check (age>15));
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 2
```

```
mysql> add age int;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'add age int' at line 1
```

```
mysql> alter table students
```

```
-> add age int;
```

```
Query OK, 0 rows affected (0.07 sec)
```

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

```
mysql> rename table students to studentsdata;
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into studentsdata values(123456,'reshu','F',101,18);
```

```
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails  
(`reshushetty`.`studentsdata`, CONSTRAINT `studentsdata_ibfk_1` FOREIGN KEY (`departmentid`)  
REFERENCES `department` (`departmentid`))
```

```
mysql> select * from studentdata;
```

```
ERROR 1146 (42S02): Table 'reshushetty.studentdata' doesn't exist
```

```
mysql> select * from studentsdata;
```

```
Empty set (0.00 sec)
```

```
mysql> insert into department values(101,'cse')
```

```
-> (103,'ece')
```

```
-> (112,'csd')
```

```
-> (105,'eee');
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
your MySQL server version for the right syntax to use near '(103,'ece')
```

```
(112,'csd')
```

```
(105,'eee')' at line 2
```

```
mysql> insert into department values(101,'CSE');
```

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

```
mysql> insert into department values(102,'EEE');
```

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

```
mysql> insert into department values(103,'ECE');
```

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

```
mysql> select * from department;
```

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

```
| departmentid | departmentname |
```

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

```
| 101 | CSE |
```

```
| 102 | EEE |
```

```
| 103 | ECE |
```

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

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

```
mysql> insert into studentsdata(123654,'reshu','F',101,18);
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
your MySQL server version for the right syntax to use near '123654,'reshu','F',101,18)' at line 1
```

```
mysql> insert into studentsdata(123654,'reshu','F',101);
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
your MySQL server version for the right syntax to use near '123654,'reshu','F',101)' at line 1
```

```
mysql> insert into studentsdata(123654,'reshu','F');
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
your MySQL server version for the right syntax to use near '123654,'reshu','F')' at line 1
```

```
mysql> insert into  
studentsdata(studentid,studentname,gender,departmentid,age)values(1236,'reshu','F',101,18);
```

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

```
mysql> insert into  
studentsdata(studentid,studentname,gender,departmentid,age)values(1336,'viha','F',101,18);
```

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

```
mysql> insert into  
studentsdata(studentid,studentname,gender,departmentid,age)values(1436,'vinnu','M',102,19);
```

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

```
mysql> insert into  
studentsdata(studentid,studentname,gender,departmentid,age)values(1006,'aadhy'a','F',102,19);
```

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

```
mysql> insert into  
studentsdata(studentid,studentname,gender,departmentid,age)values(1526,'riya','F',103,19);
```

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

```
mysql> insert into  
studentsdata(studentid,studentname,gender,departmentid,age)values(1527,'ram','M',103,20);
```

Query OK, 1 row affected (0.01 sec)

mysql> select * from studentsdata;

studentid	studentname	gender	departmentid	age
1006	aadhya	F	102	19
1236	reshu	F	101	18
1336	viha	F	101	18
1436	vinnu	M	102	19
1526	riya	F	103	19
1527	ram	M	103	20

6 rows in set (0.00 sec)

mysql> select * from studentsdata

-> where age >18;

studentid	studentname	gender	departmentid	age
1006	aadhya	F	102	19
1436	vinnu	M	102	19
1526	riya	F	103	19
1527	ram	M	103	20

4 rows in set (0.00 sec)

mysql> select gender from studentsdata

-> where gender='M';

gender
M

```
+-----+
| M   |
| M   |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> insert into teacher(techerid,subjectname,departmentid)values(528,'java',101);
```

```
ERROR 1054 (42S22): Unknown column 'techerid' in 'field list'
```

```
mysql> insert into teacher(teacherid,subjectname,departmentid)values(528,'java',101);
```

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

```
mysql> insert into teacher(teacherid,subjectname,departmentid)values(128,'c',101);
```

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

```
mysql> insert into teacher(teacherid,subjectname,departmentid)values(144,'bio',103);
```

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

```
mysql> insert into teacher(teacherid,subjectname,departmentid)values(145,'chem',103);
```

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

```
mysql> insert into teacher(teacherid,subjectname,departmentid)values(174,'python',102);
```

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

```
mysql> select * from teacher;
```

```
+-----+-----+-----+
| teacherid | subjectname | departmentid |
+-----+-----+-----+
|    128 |      c      |     101 |
|    144 |      bio     |     103 |
|    145 |      chem    |     103 |
|    174 |      python   |     102 |
```

```
| 528 | java | 101 |  
+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> select * from teacher
```

```
-> order by teacherid desc;
```

```
+-----+-----+-----+  
| teacherid | subjectname | departmentid |  
+-----+-----+-----+
```

```
| 528 | java | 101 |  
| 174 | python | 102 |  
| 145 | chem | 103 |  
| 144 | bio | 103 |  
| 128 | c | 101 |  
+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> select * from teacher
```

```
-> where departmentid = 101;
```

```
+-----+-----+-----+  
| teacherid | subjectname | departmentid |  
+-----+-----+-----+
```

```
| 128 | c | 101 |  
| 528 | java | 101 |  
+-----+-----+-----+
```

2 rows in set (0.00 sec)

```
mysql> select * from studentsdata
```

```
-> where studentname like 'r%';
```

```
+-----+-----+-----+-----+  
| studentid | studentname | gender | departmentid | age |  
+-----+-----+-----+-----+
```

```
+-----+-----+-----+-----+
| 1236 | reshu   | F   |    101 |  18 |
| 1526 | riya    | F   |    103 |  19 |
| 1527 | ram     | M   |    103 |  20 |
+-----+-----+-----+-----+
```

3 rows in set (0.00 sec)

mysql> update teacher

```
-> set subjectname='c++'  
-> where teacherid=128;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from teacher;

```
+-----+-----+-----+
| teacherid | subjectname | departmentid |
+-----+-----+-----+
| 128 | c++      |    101 |
| 144 | bio      |    103 |
| 145 | chem     |    103 |
| 174 | python   |    102 |
| 528 | java     |    101 |
+-----+-----+-----+
```

5 rows in set (0.00 sec)

mysql> delete from studentsdata

```
-> where age= 18 AND studentid=1236;
```

Query OK, 1 row affected (0.01 sec)

mysql> select * from studentsdata;

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

```

| studentid | studentname | gender | departmentid | age |
+-----+-----+-----+-----+
| 1006 | aadhyा | F | 102 | 19 |
| 1336 | viha | F | 101 | 18 |
| 1436 | vinnu | M | 102 | 19 |
| 1526 | riya | F | 103 | 19 |
| 1527 | ram | M | 103 | 20 |
+-----+-----+-----+-----+

```

5 rows in set (0.00 sec)

mysql> select min(age) from studentsdata

-> where gender='F';

```

+-----+
| min(age) |
+-----+
| 18 |
+-----+

```

1 row in set (0.01 sec)

mysql> select count(*) as records

-> from teacher

-> order by teacherid;

```

+-----+
| records |
+-----+
| 5 |
+-----+

```

1 row in set (0.00 sec)

mysql> select max(age) as maximum,studentid

-> from studentsdata

```
-> groupby studentid;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'studentid' at line 3

```
mysql> select max(age) as maximum,studentid
```

```
-> from studentsdata
```

```
-> group by studentid;
```

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

```
| maximum | studentid |
```

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

```
| 19 | 1006 |
```

```
| 18 | 1336 |
```

```
| 19 | 1436 |
```

```
| 19 | 1526 |
```

```
| 20 | 1527 |
```

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

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

```
mysql> select sum(studentid)
```

```
-> from studentsdata;
```

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

```
| sum(studentid) |
```

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

```
| 6831 |
```

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

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

```
mysql> select avg(departmentid)as average,departmentname
```

```
-> from department
```

```
-> group by departmentname
```

```
-> where studentid>1006;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'where studentid>1006' at line 4

```
mysql> select avg(departmentid) as department
-> select avg(departmentid) as department,departmentname
-> from department
-> group by departmentname;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
your MySQL server version for the right syntax to use near 'select avg(departmentid) as
department,departmentname

from department
group by d' at line 2

mysql> select avg(departmentid)from department;
+-----+
| avg(departmentid) |
+-----+
|      102.0000 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select departmentid,departmentname
-> from department
-> inner join studentsdata on department.departmentid=studentsdata.departmentid;
ERROR 1052 (23000): Column 'departmentid' in field list is ambiguous

mysql> select departmentid,departmentname
-> from department
-> inner join studentsdata on department.departmentid=studentsdata.studentid;
ERROR 1052 (23000): Column 'departmentid' in field list is ambiguous

mysql> inner join studentsdata on department.departmentname=studentsdata.studentid;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
your MySQL server version for the right syntax to use near 'inner join studentsdata on
department.departmentname=studentsdata.studentid' at line 1

mysql> select teacherid,subjectname,departmentid
-> from teacher
-> inner join department on teacher.teacherid=department.departmentname;
```

ERROR 1052 (23000): Column 'departmentid' in field list is ambiguous

```
mysql> select studentid,studentname,departmentid
```

```
    -> from studentsdata
```

```
    -> inner join department on studentsdata.departmentid=department.departmentid;
```

ERROR 1052 (23000): Column 'departmentid' in field list is ambiguous

```
mysql> select s.studentname,s.studentid,d.departmentname
```

```
    -> from studentsdata s
```

```
    -> inner join department d on s.departmentid=d.departmentid;
```

```
+-----+-----+-----+
| studentname | studentid | departmentname |
+-----+-----+-----+
| viha      | 1336   | CSE       |
| aadhya    | 1006   | EEE       |
| vinnu     | 1436   | EEE       |
| riya      | 1526   | ECE       |
| ram        | 1527   | ECE       |
+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> select s.studentname,s.studentid,d.departmentname
```

```
    -> from studentsdata s
```

```
    -> left join department d on s.departmentid=d.departmentid;
```

```
+-----+-----+-----+
| studentname | studentid | departmentname |
+-----+-----+-----+
| aadhya    | 1006   | EEE       |
| viha      | 1336   | CSE       |
| vinnu     | 1436   | EEE       |
| riya      | 1526   | ECE       |
| ram        | 1527   | ECE       |
+-----+-----+-----+
```

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

```
mysql> select t.teacherid,d.departmentname,t.subjectname  
-> from teacher t  
-> right join department d on t.departmentid=d.departmentid;
```

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

```
| teacherid | departmentname | subjectname |
```

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

```
| 128 | CSE | c++ |  
| 528 | CSE | java |  
| 174 | EEE | python |  
| 144 | ECE | bio |  
| 145 | ECE | chem |
```

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

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

```
mysql> select t.teacherid,t.subjectname,d.departmentname
```

```
-> from teacher t  
-> outer join department d on t.teacherid=d.departmentname;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
your MySQL server version for the right syntax to use near 'outer join department d on  
t.teacherid=d.departmentname' at line 3
```

```
mysql> select t.teacherid,s.studentid,t.subjectname
```

```
-> from teacher t  
-> outer join student s on t.teacherid=s.studentid;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to  
your MySQL server version for the right syntax to use near 'outer join student s on  
t.teacherid=s.studentid' at line 3
```

```
mysql> select t.teacherid,t.teachername,d.departmentname
```

```
-> from teacher t  
-> outer join department d on t.departmentid=d.departmentid;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'outer join department d on t.departmentid=d.departmentid' at line 3

```
mysql> select t.teacherid,t.subjectname,d.departmentname
```

```
-> from teacher t
```

```
-> outer join derpartment d on t.departmentid=d.departmentid;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'outer join derpartment d on t.departmentid=d.departmentid' at line 3

```
mysql> grant select on studentsdata to riya ;
```

ERROR 1410 (42000): You are not allowed to create a user with GRANT

```
mysql> revoke select on studentsdata from riya;
```

ERROR 1147 (42000): There is no such grant defined for user 'riya' on host '%' on table 'studentsdata'

```
mysql> grant insert on teacher to python;
```

ERROR 1410 (42000): You are not allowed to create a user with GRANT

```
mysql> commit;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> rollback;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> savepoint;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near "" at line 1

```
mysql> drop table teacher;
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> select * from teacher;
```

ERROR 1146 (42S02): Table 'reshushetty.teacher' doesn't exist

```
mysql> rollback;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> truncate table teacher;
```

ERROR 1146 (42S02): Table 'reshushetty.teacher' doesn't exist

mysql> truncate table studentsdata;

Query OK, 0 rows affected (0.05 sec)

mysql> show tables;

+-----+

| Tables_in_reshushetty |

+-----+

| department |

| studentsdata |

+-----+

2 rows in set (0.01 sec)

mysql> insert into

studentsdata(studentid,studentname,gender,departmentid,age)values('diya','F',101,18)

-> commit;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
your MySQL server version for the right syntax to use near ',diya','F',101,18)

commit' at line 1

mysql> insert into

studentsdata(studentid,studentname,gender,departmentid,age)values('diya','F',101,18)

-> insert into

studentsdata(studentid,studentname,gender,departmentid,age)values('diya','F',101,18);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
your MySQL server version for the right syntax to use near ',diya','F',101,18)

insert into studentsdata(studentid,studentname,gender,depart' at line 1

mysql> show tables;

+-----+

| Tables_in_reshushetty |

+-----+

| department |

| studentsdata |

+-----+

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

```
mysql> create view department as select departmentid from department;
```

```
ERROR 1050 (42S01): Table 'department' already exists
```

```
mysql> create view departmentview as select departmentid from department;
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select * from departmentview;
```

```
+-----+  
| departmentid |  
+-----+  
|      101 |  
|      102 |  
|      103 |  
+-----+
```

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

```
mysql> alter view departmentview as
```

```
-> select departmentname  
-> from department  
-> where departmentname="ECE";
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> select * from departmentview;
```

```
+-----+  
| departmentname |  
+-----+  
| ECE          |  
+-----+
```

```
1 row in set (0.01 sec)
```

```
mysql> select upper (studentid) from studentsdetails;
```

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

```
| upper (studentid) |
```

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

```
| 1236      |
```

```
| 1235      |
```

```
| 1237      |
```

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

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

```
mysql> select UPPER(studentid) from studentsdetails;
```

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

```
| UPPER(studentid) |
```

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

```
| 1236      |
```

```
| 1235      |
```

```
| 1237      |
```

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

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

```
mysql> select UPPER(studentname)as studentname from studentsdetails;
```

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

```
| studentname |
```

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

```
| RESHU     |
```

```
| RIYA     |
```

```
| RAM      |
```

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

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

```
mysql> select lower(studentname) as studentname from studentsdetails;
```

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

```
| studentname |
```

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

```
| reshu    |
```

```
| riya    |
```

```
| ram    |
```

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

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

```
mysql> select concat (reshu,shetty) as reshu from studentsdetails;
```

```
ERROR 1054 (42S22): Unknown column 'reshu' in 'field list'
```

```
mysql> select concat (student,name) as studentname from studentsdetails;
```

```
ERROR 1054 (42S22): Unknown column 'student' in 'field list'
```

```
mysql> select concat (studentname,studentid) as studentname from studentsdetails;
```

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

```
| studentname |
```

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

```
| reshu1235 |
```

```
| riya1236 |
```

```
| ram1237 |
```

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

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

```
mysql> select LENGTH (marks) from studentsdetails;
```

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

```
| LENGTH (marks) |
```

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

```
|      2 |
```

```
|      2 |
```

```
|      1 |
```

```
|      2 |
```

```
|      2 |  
|      2 |  
+-----+  
6 rows in set (0.01 sec)
```

```
mysql> select trim (studentname) as name from studentsdetails;  
ERROR 1630 (42000): FUNCTION reshushetty.trim does not exist. Check the 'Function Name Parsing  
and Resolution' section in the Reference Manual
```

```
mysql> select trim(studentname) from studentsdetails;
```

```
+-----+  
| trim(studentname)|  
+-----+  
| riya           |  
| reshu          |  
| jin            |  
| reshu          |  
| riya           |  
| ram            |  
+-----+
```

6 rows in set (0.00 sec)

```
mysql> select substring(studentname,marks)from studentsdetails;
```

```
+-----+  
| substring(studentname,marks) |  
+-----+  
| |  
| |  
| |  
| |  
| |  
| |  
| |  
| |
```

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

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

```
mysql> select substring(studentname,1,3) from studentsdetails;
```

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

```
| substring(studentname,1,3) |
```

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

```
| riy      |
```

```
| res      |
```

```
| jin      |
```

```
| res      |
```

```
| riy      |
```

```
| ram      |
```

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

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

```
mysql> select cast(marks as char);
```

```
ERROR 1054 (42S22): Unknown column 'marks' in 'field list'
```

```
mysql> select cast(marks as char) from studentsdetails;
```

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

```
| cast(marks as char) |
```

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

```
| 96      |
```

```
| 90      |
```

```
| 0       |
```

```
| 90      |
```

```
| 90      |
```

```
| 75      |
```

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

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

```
mysql> select convert(marks,char)from studentsdetails;
```

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

```
| convert(marks,char) |
```

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

```
| 96      |
```

```
| 90      |
```

```
| 0       |
```

```
| 90      |
```

```
| 90      |
```

```
| 75      |
```

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

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

```
mysql> select round(10)from studentsdetails;
```

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

```
| round(10) |
```

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

```
|    10 |
```

```
|    10 |
```

```
|    10 |
```

```
|    10 |
```

```
|    10 |
```

```
|    10 |
```

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

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

```
mysql> select abs(-8)from studentsdetails;
```

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

```
| abs(-8) |
```

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

```
|    8 |
```

```
|    8 |
|    8 |
|    8 |
|    8 |
|    8 |
+-----+
```

6 rows in set (0.01 sec)

mysql> select floor(7.3)from studentsdetails;

```
+-----+
| floor(7.3) |
+-----+
|    7 |
|    7 |
|    7 |
|    7 |
|    7 |
|    7 |
+-----+
```

6 rows in set (0.01 sec)

mysql> select ceiling(avg(marks)) from studentsdetails;

```
+-----+
| ceiling(avg(marks)) |
+-----+
|      74 |
+-----+
```

1 row in set (0.01 sec)

mysql> select now();

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

```
| now()      |
+-----+
| 2026-01-09 17:12:20 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select curdate();
+-----+
| curdate() |
+-----+
| 2026-01-09 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select datediff(curdate,'29-11-2025');
ERROR 1054 (42S22): Unknown column 'curdate' in 'field list'
mysql> select datediff(curdate(),'29-11-2025');
+-----+
| datediff(curdate(),'29-11-2025') |
+-----+
|          NULL |
+-----+
1 row in set, 1 warning (0.00 sec)
```

```
mysql> select year(now());
+-----+
| year(now()) |
+-----+
|    2026 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select month(curdate());
```

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

```
| month(curdate()) |
```

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

```
|      1 |
```

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

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

```
mysql> DELIMITER //
```

```
mysql> create function studentgrade(marks int)
```

```
-> RETURNS varchar(2)
```

```
-> deterministic
```

```
-> begin
```

```
-> declare g varchar(2);
```

```
-> if marks >=90 then set g='A';
```

```
-> else
```

```
-> set g='B';
```

```
-> end if;
```

```
-> RETURN g;
```

```
-> end;
```

```
-> //
```

```
ERROR 1304 (42000): FUNCTION studentgrade already exists
```

```
mysql> DELimiter //
```

```
mysql> create function studentsgrade(marks int)
```

```
-> RETURNS varchar(2)
```

```
-> deterministic
```

```
-> begin
```

```
-> declare g varchar(2);
```

```
-> if marks >=90 then
```

```
-> set g='A';
```

```
-> else  
-> set g='B';  
-> end if;  
-> RETURN g;  
-> end;  
-> //
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> select studentid,marks,studentgrade(marks) from studentsdetails;
```

```
->  
-> select studentid,marks,studentgrade(marks)  
-> from studentsdetails;  
-> //;
```

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

```
| studentid | marks | studentgrade(marks) |
```

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

```
| 1235 | 90 | A |  
| 1236 | 90 | A |  
| 1237 | 75 | B |
```

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

3 rows in set (0.00 sec)

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

```
| studentid | marks | studentgrade(marks) |
```

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

```
| 1235 | 90 | A |  
| 1236 | 90 | A |  
| 1237 | 75 | B |
```

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

3 rows in set (0.03 sec)

```
mysql> DELIMITER //  
mysql> create procedure studentget(dept int)  
-> begin  
-> select studentname,departmentid  
-> from studentsdetails  
-> where departmentid=dept;  
-> end;  
-> //
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> call studentget(102);  
-> //;  
+-----+-----+  
| studentname | departmentid |  
+-----+-----+  
| reshu     |      102 |  
| ram       |      102 |  
+-----+-----+  
2 rows in set (0.01 sec)
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> use reshushetty;  
Database changed  
mysql> DELIMITER //  
mysql> create trigger studtrigger  
-> before insert  
-> on studentsdetails  
-> for each row  
-> begin  
-> if new.marks<35 then
```

```
-> set new.marks=0;  
-> end if;  
-> end;  
-> //
```

Query OK, 0 rows affected (0.12 sec)

```
mysql> insert into studentsdetails values(153,"jin",'M',102,15,32);
```

```
-> //
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from studentsdetails;
```

```
-> //
```

studentid	studentname	gender	departmentid	age	marks
111	riya	F	102	14	90
123	reshu	F	102	15	90
153	jin	M	102	15	0
1235	reshu	F	102	18	90
1236	riya	F	101	18	90
1237	ram	M	102	19	75

6 rows in set (0.00 sec)

```
mysql> DELIMITER //
```

```
mysql> create trigger new_trigger
```

```
-> after insert  
-> on studentsdetails  
-> for each row  
-> begin  
-> insert into studentsdetails(marks,action)  
-> values(new.marks,'insert');  
-> end;
```

-> //

Query OK, 0 rows affected (0.03 sec)

mysql> select * from studentsdetails;

-> //

```
+-----+-----+-----+-----+-----+
| studentid | studentname | gender | departmentid | age | marks |
+-----+-----+-----+-----+-----+
|    111 | riya      | F     |      102 |  14 |   90 |
|    123 | reshu     | F     |      102 |  15 |   90 |
|    153 | jin       | M     |      102 |  15 |    0 |
|  1235 | reshu     | F     |      102 |  18 |   90 |
|  1236 | riya      | F     |      101 |  18 |   90 |
|  1237 | ram        | M     |      102 |  19 |   75 |
+-----+-----+-----+-----+-----+
```

6 rows in set (0.01 sec)

mysql> update studentsdetails

-> set marks=96

-> where studentid=111;

-> //

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from studentsdetails;

-> //

```
+-----+-----+-----+-----+-----+
| studentid | studentname | gender | departmentid | age | marks |
+-----+-----+-----+-----+-----+
|    111 | riya      | F     |      102 |  14 |   96 |
|    123 | reshu     | F     |      102 |  15 |   90 |
|    153 | jin       | M     |      102 |  15 |    0 |
+-----+-----+-----+-----+-----+
```

	1235		reshu		F		102		18		90	
	1236		riya		F		101		18		90	
	1237		ram		M		102		19		75	

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

6 rows in set (0.00 sec)

mysql