

```
git init
git status
git add file.txt
git commit -m "Initial commit"
```

```
git branch feature1
git checkout feature1
git add folder/
git commit -m "Added folder"
```

```
git push origin feature1
```

```
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,'aadhya','F',102,19);

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,'aadhya','F',
102,19);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into
studentsdata(studentid,studentname,gender,departmentid,age)values(1526,'riya','F',10
3,19);
```

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

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 | aadhya      | 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> 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> 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)