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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');

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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', 1
01,18);
Query OK, 1 row affected (0.01 sec)

mysql> insert into
studentsdata(studentid,studentname,gender,departmentid,age)values(1336, 'viha', 'F', 1
01,18);
Query OK, 1 row affected (0.01 sec)

mysql> insert into
studentsdata(studentid,studentname,gender,departmentid,age)values(1436, 'vinnu', 'M', 1
02,19);
Query OK, 1 row affected (0.01 sec)

mysql> insert into
studentsdata(studentid,studentname,gender,departmentid,age)values(1006, 'aadhyा', 'F',
102,19);
Query OK, 1 row affected (0.01 sec)

mysql> insert into
studentsdata(studentid,studentname,gender,departmentid,age)values(1436, 'vinnu', 'M', 1
02,19);

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Query OK, 1 row affected (0.01 sec)

mysql> insert into
studentsdata(studentid,studentname,gender,departmentid,age)values(1006,'aadhyा','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 | aadhyा | 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 | aadhyा | 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)

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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 |
+-----+-----+-----+-----+-----+

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+-----+-----+-----+
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)

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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)

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