```
mysql> use database;
EŔROR 1049 (42000): Unknown database 'database'
mysql> create database simam;
Query OK, 1 row affected (0.00 sec)
mysql> use database;
ERROR 1049 (42000): Unknown database 'database'
mysal> use simam:
Database changed
mysql> select database;
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 '' a
t line 1
mysql> select database();
 database()
 simam
1 row in set (0.00 sec)
mysql> create table student(name varchar(20),reg_no int,gender varchar(67),DOB varchar(56),mobile_no int,city varchar(70));
Query OK, 0 rows affected (0.02 sec)
mysql> sow tables;
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 'sow
tables' at line 1
mysql> show tables;
 Tables_in_simam
 student
1 row in set (0.00 sec)
mysql> describe student;
 Field
                            Null | Key |
                                         Default | Extra
              Type
              varchar(20)
                            YES
                                          NULL
 name
                            YES
                                          NULL
 reg_no
              int
 gender
              varchar(67)
                            YES
                                          NULL
              varchar (56)
 DOB
                            YES
                                          NULL
 mobile_no
              int
                            YES
                                          NULL
              varchar (70)
                            YES
 city
                                          NULL
```

mysql>

6 rows in set (0.01 sec)

```
1 row in set (0.00 sec)
mysql> describe student;
 Field
               Type
                              Null
                                      Key
                                             Default
                                                         Extra
 name
               varchar(20)
                                              NULL
 reg_no
               int
                               YES
                                              NULL
               varchar(67)
varchar(56)
 gender
                               YES
                                              NULL
  DOB
                               YES
                                              NULL
 mobile_no
                               YES
                                              NULL
               int
               varchar(70)
 city
                              YES
                                              NULL
6 rows in set (0.01 sec)
mysql> create table faculty(name varchar(100),fac_num int,gen varchar(7),dob varchar(20),doj varchar(20),mob_num int);
Query OK, 0 rows affected (0.02 sec)
mysql> desc faculty;
 Field
             Type
                             Nu11
                                     Key
                                            Default | Extra
             varchar (100)
 name
                              YES
                                             NULL
 fac_num
                              YES
                                             NULL
             int
             varchar(7)
varchar(20)
varchar(20)
 gen
dob
                              YES
                                             NULL
                              YES
                                             NULL
 doj
                              YES
                                             NULL
                              YES
 mob_num
             int
                                            NULL
6 rows in set (0.00 sec)
mysql> create table department(dept_no int,dept
mysql> create table department(dept_no int,dept_name varchar(80),dept_head varchar(56));
Query OK, 0 rows affected (0.01 sec)
mysql> desc department;
 Field
                              Null
                                      Key
                                             Default |
                                                         Extra
               Type
  dept_no
                               YES
                                              NULL
                               YES
                                              NULL
```

mysql> _

dept_name

dept_head

rows in set (0.00 sec)

varchar(80)

varchar (56)

YES

NULL

student

```
mysql> create table department(dept_no int,dept_name varchar(80),dept_head varchar(56));
Query OK, 0 rows affected (0.01 sec)
mysql> desc department;
 Field
              Type
                            Null | Key
                                          Default | Extra
 dept_no
                             YES
                                          NULL
              int
 dept_name
              varchar(80)
                             YES
                                          NULL
              varchar (56)
 dept_head
                            YES
                                          NULL
3 rows in set (0.00 sec)
mysql> create table course(course_no int,course_desc varchar(50),course_type varchar(100),sem_no int,hall_no int,fac_no int);
Query OK, 0 rows affected (0.02 sec)
mysql> desc course;
 Field
                                Null
                                             Default | Extra
                Type
                                     | Key |
 course_no
                int
                                YES
                                             NULL
                varchar(50)
                                YES
 course_desc
                                             NULL
                varchar (100)
 course_type
                                YES
                                             NULL
 sem_no
hall_no
                                YES
                                             NULL
                int
                int
                                YES
                                             NULL
 fac_no
                int
                                YES
                                             NULL
6 rows in set (0.01 sec)
mysql> alter table faculty add(dept_no varchar(4));
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc faculty;
                           Null | Key |
 Field
            Type
                                         Default | Extra
            varchar (100)
                            YES
 name
                                         NULL
 fac_num
            int
                            YES
                                         NULL
            varchar(7)
varchar(20)
 gen
                            YES
                                         NULL
 dob
                            YES
                                         NULL
```

0

mysql> _

doj

mob_num

dept_no

varchar(20)

varchar(4)

int

rows in set (0.00 sec)

YES

YES

YES

NULL

NULL

NULL

MySQL 8.0 Command Line Client - Unicode

-> \c

line 1 ql> alter table faculty add foreign key(dept_no)references department(dept_no); ry OK, O rows affected (0.05 sec) ords: O Duplicates: O Warnings: O

ql> desc faculty;

| | | + | + | + | |
|--------------|------------------------------|----------|----------------|--------------|-------|
| ield | Туре | Null | Кеу | Default | Extra |
| ame | varchar(100) | YES | PRI | NULL | |
| ac_num en | varchar(7) | YES | PKI | NULL NULL | |
| ob oj | varchar(20) varchar(20) | YES YES | | NULL NULL | |
| ob_num | int | YES | | NULL | |
| ept_no | int | YES + | MUL + | NULL + | |

ows in set (0.00 sec)

q1>

```
0
  MySQL 8.0 Command Line Client - Unicode
  name
             varchar (100)
                             YES
                                            NULL
                                     PRI
  fac_num
             int
                              NO
                                           NULL
             varchar(7)
                             YES
  gen
                                           NULL
  dob
             varchar(20)
                             YES
                                            NULL
             varchar(20)
                             YES
                                            NULL
  doj
  mob_num
             int
                             YES
                                            NULL
                             YES
  dept_no | int
                                     MUL
                                           NULL
  rows in set (0.00 sec)
mysql> alter table faculty add foreign key(dept_no)references department(dept_no)check(gender='m'or'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 'che ck(gender='m'or'f')' at line 1
mysql> alter table faculty add check(gender='m'or'f');
ERROR 1054 (42S22): Unknown column 'gender' in 'check'constraint faculty_chk_1 expression'
mysql> alter table faculty add check(gender is ('m'or'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 '('m
 or'f'))' at line 1
mysql> alter table faculty add check(gen is ('m'or'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 '('m
 or'f'))' at line 1
mysql> alter table faculty check(gen is ('m'or'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 '(ge
n is ('m'or'f'))' at line 1
mysql> alter table faculty check(gen in ('m','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 '(ge n in ('m','f'))' at line 1
mysql> alter table faculty modify check(gen in ('m'.'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 'che
ck(gen in ('m','f'))' at line 1
mysql> alter table faculty add check(gen='m'or'f');
Query OK, 0 rows affected (0.05 sec)
Records: O Duplicates: O Warnings: O
mysql> desc faculty:
                            Null | Key | Default | Extra
 Field
            Type
            varchar (100)
                             YES
 name
 fac_num
                                    PRI
                            NO
                                           NULL
                             YES
 gen
            varchar(7)
                                           NULL
 dob
            varchar(20)
                            YES
                                           NULL
 doj
            varchar(20)
                            YES
                                           NULL
 mob_num
                            YES
            int
                                           NULL
 dept_no
            int
                            YES
                                    MUL
                                           NULL
rows in set (0.00 sec)
```

```
n is ('m'or'f'))' at line 1
mysql> alter table faculty check(gen in ('m','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 '(ge n in ('m','f'))' at line 1
mysql> alter table faculty modify check(gen in ('m','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 'che ck(gen in ('m','f'))' at line 1
mysql> alter table faculty add check(gen='m'or'f');
Query OK, 0 rows affected (0.05 sec)

Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
 mysql> desc faculty:
    Field
                                                                  Null | Key | Default | Extra
                              Type
                              varchar(100)
    name
                                                                   YES
     fac_num
                                                                   NO
                                                                                    PRI
                                                                                                   NULL
                             varchar(7)
varchar(20)
    gen
                                                                   YES
                                                                                                   NULL
    dob
                                                                   YES
                                                                                                   NULL
                              varchar(20)
    doj
                                                                   YES
                                                                                                   NULL
    mob_num
                                                                   YES
                              int
                                                                                                    NULL
    dept_no
                             int
                                                                   YES
                                                                                    MUL
                                                                                                  NULL
7 rows in set (0.00 sec)
mysql> alter table course add primary key(course_no),(sem_no=1-6);
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 '(se m_no=1-6)' at line 1
mysql> alter table course add primary key(course_no),(sem_no 1-6);
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 '(se m_no 1-6)' at line 1
mysql> alter table course add primary key(course_no);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc course:
   Field
                                                                            Null | Key
                                                                                                            Default | Extra
                                       Type
                                                                                              PRI
   course_no
```

varchar(50)

int

int

int

varchar (100)

YES

YES

YES

YES

YES

NULL

NULL

NULL

NULL

NULL

MySQL 8.0 Command Line Client - Unicode

mysql> _

course_desc

course_type

sem_no

fac_no

hall_no

```
mysql> desc course;
                                                           | Default | Extra
                                           Null | Key
| Field
                      Type
                                                              NULL
                                           NO
                                                      PRI
  course_no
                                           YES
                                                               NULL
                      varchar (50)
  course_desc
                                            YES
                                                              NULL
                      varchar (100)
  course_type
                                                               NULL
                      int
                                            YES
  sem_no
                                            YES
                                                               NULL
  hall_no
                      int
                                           YES
                                                              NULL
                      int
  fac_no
6 rows in set (0.00 sec)
mysql> alter table course add check(sem_no=1 to 6);
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 'to
6)' at line 1
mysql> alter table course add check(sem_no=1-6);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc course;
+----
                                                           | Default | Extra
                                           Null
                                                     Key
 Field
                      Type
                                                              NULL
                                           NO
                                                     PRI
  course_no
                      int
```

course_desc

course_type

sem_no hall_no

fac_no

MySQL 8.0 Command Line Client - Unicode 7 rows in set (0.00 sec)

mysql> select * from course;\ Empty set (0.00 sec)

varchar(50)

int

int

varchar (100)

YES

YES

YES

YES

YES

NULL

NULL

NULL

NULL

NULL

mysql> select * from course; Empty set (0.00 sec)

mysql>



| Field | Type | Null | Key | Default | Extra |
|-----------|-------------|-------|-----|---------|-------|
| dept_no | int | NO NO | PRI | NULL | |
| dept_name | varchar(80) | YES | 1 | NULL | ĺ |
| dept_head | varchar(56) | YES | 1 | NULL | l |

mysql> select*from department;

| | dept_name | |
|----|-----------|------|
| | maths | |
| 24 | english | sura |
| 24 | | sura |

2 rows in set (0.00 sec)

mysql> select*from faculty; Empty set (0.00 sec)



MySQL 8.0 Command Line Client —

0 X

mysql> insert into faculty(name,fac_num,gen,dob,doj,mob_num,dept_no)values('sura',2,'m',23/11/1947,12/11/2006,1234776,24); Query OK, 1 row affected (0.01 sec)

mysql> select * from faculty;

| name fac_num | | gen | dob | doj | mob_num | dept_no | |
|----------------|---|-----|----------------------|----------------------|---------|---------|--|
| ganesh | 1 | m | 0.001068425697496167 | 0.000543823075772681 | 1234556 | 23 | |
| sura | 2 | m | 0.001073913246019517 | 0.000543823075772681 | 1234776 | 24 | |

2 rows in set (0.00 sec)

mysql>

```
MySQL 8.0 Command Line Client
ERROR 3819 (HY000): Check constraint 'course_chk_1' is violated.
mysql> insert into course(course no,course desc,course type,sem no,hall no,fac no)values(34,'maths','sums',1,234,1);
ERROR 3819 (HY000): Check constraint 'course_chk_1' is violated.
mysql> insert into course(course_no,course_desc,course_type,sem_no,hall_no,fac_no)values(21,'maths','analytical',1,234,12);
ERROR 3819 (HY000): Check constraint 'course_chk_1' is violated.
mysql> insert into course(course_no,course_desc,course_type,sem_no,hall_no,fac_no)values(34,'maths','sums',1,234,45);
ERROR 3819 (HY000): Check constraint 'course chk 1' is violated.
mysql>
mysql> desc student;
Field
                         | Null | Key | Default | Extra |
            Type
             varchar(20) | YES
                                        NULL
 name
                                  PRI | NULL
             int
                           NO
 reg_no
gender
             varchar(67) YES
                                        NULL
 DOB
             varchar(56)
                                        NULL
 mobile no
             int
                           YES
                                        NULL
 city
             varchar(70) YES
                                        NULL
6 rows in set (0.00 sec)
mysql> update student set reg_no=191711342 where name='sarathi';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select*from student;
```

lakshmanan | 192224055 | m

reg_no | gender | DOB

191711342 m

| mobile no | city

7770469 | chennai

123456 | karanodai

20/07/2004

24/11/2004

mysql> _

sarathi

MySQL 8.0 Command Line Client mysql> update faculty set position=resigned where name=ganesh,position=unresigned&&name=sura; 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 ',position=unresigned&&name=sura' at line 1 mysql> update faculty set position='resigned' where name='ganesh',position='unresigned'&&name='sura'; 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 ',position='unresigned'&&name='sura'' at line 1 mysql> update faculty set position='resigned' where name='ganesh'; Query OK, 1 row affected (0.01 sec) Rows matched: 1 Changed: 1 Warnings: 0 mysql> update faculty set position='unresigned' where name='sura'; Query OK, 1 row affected (0.01 sec) Rows matched: 1 Changed: 1 Warnings: 0 mysql> desc faculty; Field | Type | Null | Key | Default | Extra | name varchar(100) | YES NULL NO PRI NULL fac_num int varchar(7) NULL gen dob varchar(20) NULL

0

9 rows in set (0.00 sec)

doj

mob_num dept_no

position | age

mysql> select*from faculty;

int

int

int

varchar(20)

varchar(23)

| name | fac_num | gen | dob | doj | mob_num | dept_no | position | age | |
|----------------|---------|-----|--|-----|---------|---------|------------------------|-----|--|
| ganesh sura | | | 0.001068425697496167 0.001073913246019517 | | | | resigned unresigned | | |

NULL

NULL

NULL

MUL | NULL

2 rows in set (0.00 sec)

mysql> select*from faculty:

mysql> delete from faculty where position='resigned'; Query OK, 1 row affected (0.01 sec)

YES

quely ok, I low affected (0.01 sec

| | fac_num | | dob | doj | - 100 | | position | |
|------|---------|---|----------------------|----------------------|---------|----|------------|------|
| sura | 2 | m | 0.001073913246019517 | 0.000543823075772681 | 1234776 | 24 | unresigned | NULL |

1 row in set (0.00 sec)

```
mysql> select*from faculty;
| name | fac_num | gen | dob | doj | mob_num | dept_no | position | age |
sura | 2 | m | 0.001073913246019517 | 0.000543823075772681 | 1234776 | 24 | unresigned | NULL |
1 row in set (0.00 sec)
mysql> insert into faculty(nam,e,fac_num,gen,dob,doj,mob_num,dept_no,position,age)values('ram',3,'m',23/4/1987,23/5/2007,25,'unresigned',57);
ERROR 1054 (42S22): Unknown column 'nam' in 'field list'
mysql> insert into faculty(name,fac_num,gen,dob,doj,mob_num,dept_no,position,age)values('ram',3,'m',23/4/1987,23/5/2007,25,'unresigned',57);
ERROR 1136 (21501): Column count doesn't match value count at row 1
mysql> update faculty set age=77 where name= 'ganesh';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
mysql> update faculty set age=45 where name='sura';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select*from faculty;
name | fac_num | gen | dob | doj | mob_num | dept_no | position | age |
sura | 2 | m | 0.001073913246019517 | 0.000543823075772681 | 1234776 | 24 | unresigned | 45 |
1 row in set (0.00 sec)
mysql> insert into faculty(name,fac_num,gen,dob,doj,mob_num,dept_no,position,age)values('ram',4,'m','24/11/1987','12/11/2005',2345467,26,'unresigned',46);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`simam`.`faculty`, CONSTRAINT `faculty_ibfk_1` FOREIGN KEY (`dept_no`) REFERENCES `department` (`dept_no`))
mysql> insert into faculty(name.fac num.gen.dob.doj.mob num.dept no.position.age)values('ram',4,'m','24/11/1987','12/11/2016',2345467,26,'unresigned',46);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`simam`. faculty`, CONSTRAINT `faculty ibfk 1` FOREIGN KEY (`dept no`) REFERENCES `department` (`dept no`))
mysql> insert into faculty(name,fac_num,gen,dob,doj,mob_num,dept_no,position,age)values('ram',4,'m','24/11/1987','12/11/2016',2345467,23,'unresigned',46);
Ouerv OK, 1 row affected (0.00 sec)
mysql> update faculty set dob=1/5/1983 where name ='ram';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysal> select*from faculty:\
name | fac_num | gen | dob | doj | mob_num | dept_no | position | age |
        2 | m | 0.001073913246019517 | 0.000543823075772681 | 1234776 | 24 | unresigned | 45 |
ram | 4 | m | 0.000100857286938981 | 12/11/2016 | 2345467 | 23 | unresigned | 46 |
2 rows in set (0.00 sec)
```

Xbox

MySQL 8.0 Command Line Client

mysql>

MySQL 8.0 Command Line Client

1 row in set (0.00 sec)

mysql> select*from faculty;\

| name | fac_num | gen | dob | doj | mob_num | dept_no | position | age | |
|------|---------|-----|----------------------|----------------------|---------|---------|------------|-----|--|
| sura | 2 | m | 0.001073913246019517 | 0.000543823075772681 | 1234776 | 24 | unresigned | 45 | |
| ram | 4 | m | 0.000100857286938981 | 12/11/2016 | 2345467 | 23 | unresigned | 46 | |

2 rows in set (0.00 sec)

mysql> update faculty set age=67 where age=45;

Query OK, 1 row affected (0.00 sec) Rows matched: 1 Changed: 1 Warnings: 0

mysql> delete from faculty where age>65; Query OK, 1 row affected (0.00 sec)

mysql> select*from faculty;

| name | fac_num | gen | dob | doj | mob_num | dept_no | position | age |
|------|---------|-----|----------------------|-----|---------|---------|------------|-----|
| ram | | | 0.000100857286938981 | | | | unresigned | |

1 row in set (0.00 sec)

mysql> select* from student, faculty;

| name | reg_no | gender | DOB | mobile_no | city | name | fac_num | gen | dob | doj | mob_num | dept_no | position | age |
|-------------------------|--------|--------|--------------------------|-----------|------|------|---------|-----|--|-----|---------|---------|--------------------------|-----|
| sarathi lakshmanan | | | 20/07/2004 24/11/2004 | | | | | | 0.000100857286938981 0.000100857286938981 | | | | unresigned unresigned | |

2 rows in set (0.00 sec)

mysql> select * from student, faculty, department, course; Empty set (0.00 sec)

mysal> select * from student.faculty.department

| name | reg_no | gender | DOB | mobile_no | city | name | fac_num | gen | dob | doj | mob_num | dept_no | position | age | dept_no | dept_name | dept_head |
|------------|-----------|--------|------------|-----------|-----------|------|---------|-----|----------------------|------------|---------|---------|------------|-----|---------|-----------|-----------|
| lakshmanan | 192224055 | m | 24/11/2004 | 123456 | karanodai | ram | 4 | m | 0.000100857286938981 | 12/11/2016 | 2345467 | 23 | unresigned | 46 | 23 | maths | ganesh |
| sarathi | 191711342 | m | 20/07/2004 | 7770469 | chennai | ram | 4 | m | 0.000100857286938981 | 12/11/2016 | 2345467 | 23 | unresigned | 46 | 23 | maths | ganesh |
| lakshmanan | 192224055 | m | 24/11/2004 | 123456 | karanodai | ram | 4 | m | 0.000100857286938981 | 12/11/2016 | 2345467 | 23 | unresigned | 46 | 24 | english | sura |
| sarathi | 191711342 | m | 20/07/2004 | 7770469 | chennai | ram | 4 | m | 0.000100857286938981 | 12/11/2016 | 2345467 | 23 | unresigned | 46 | 24 | english | sura |

4 rows in set (0.00 sec)

mysql> select

```
MySQL 8.0 Command Line Client - Unicode
  fac_num
               int
                                   YES
                                                     NULL
               varchar(7)
varchar(20)
  gen
dob
                                   YES
                                                     NULL
                                    YES
                                                     NULL
                varchar(20)
  doj
                                   YES
                                                     NULL
  mob_num
               int
                                   YES
                                                     NULL
  dept_no
               varchar(4)
                                   YES
                                                     NULL
  rows in set (0.00 sec)
mysql> alter table student(primary key(reg_no));
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 '(pr
imary key(reg_no))' at line 1
mysql> alter table student add(primary key(reg_no),mob_no int not null);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
 mysql> desc student;
  Field
                                    Null | Key | Default | Extra
                  Type
  name
                   varchar(20)
                                     YES
   reg_no
                   int
                                     NO
                                              PRI
                                                      NULL
                   varchar(67)
   gender
                                     YES
                                                      NULL
                   varchar (56)
                                     YES
                                                      NULL
   mobile_no
                   int
                                     YES
                                                      NULL
                  varchar (70)
                                     YES
  city
                                                      NULL
   mob_no
                  int
                                     NO
                                                      NULL
  rows in set (0.00 sec)
```

mysql> alter table faculty add(foreign key(dept_no),reference department(dept_no),primary key(fac_num),gender check('m' or '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 ',re
ference department(dept_no),primary key(fac_num),gender check('m' or 'f'))' at line 1
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mysql> alter table faculty add(foreign key(dept_no)references department(dept_no),primary key(fac_num),gender check'm'or'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 'che ck'm'or'f')' at line 1 mysql> alter table faculty add(foreign key(dept_no)references department(dept_no),primary key(fac_num),gender check='m'or'f');
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ck='m'or'f')' at line 1 mysgl> alter table faculty add(foreign key(dept_no)references department(dept_no),primary key(fac_num),check gender='m'or'f');