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mca@localhost:~   ✕   mca@localhost:~   ✕

```
[mca@localhost ~]$ mySQL 23mca12
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 131
Server version: 8.0.26 Source distribution

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owners.

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

mysql> use 23mca12
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> Create table dept
    -> (
    -> dno int primary key,
    -> dname varchar(20) not null
    -> );
Query OK, 0 rows affected (0.67 sec)

mysql> desc dept;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| dno   | int         | NO   | PRI | NULL    |       |
| dname | varchar(20) | NO   |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.00 sec)
```

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

mysql> Create table student
    -> (
    -> Rollno int primary key,
    -> Name varchar(20),
    -> Age int,
    -> dno int,
    -> check(Age>20 and Age<30),
    -> foreign key(dno) references dept(dno)
    -> );
Query OK, 0 rows affected (0.27 sec)

mysql> desc student;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| Rollno | int         | NO   | PRI | NULL    |       |
| Name   | varchar(20) | YES  |     | NULL    |       |
| Age    | int         | YES  |     | NULL    |       |
| dno    | int         | YES  | MUL | NULL    |       |
+--------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql>
mysql> alter table student add column Address varchar(30);
Query OK, 0 rows affected (0.14 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc student;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| Rollno | int         | NO   | PRI | NULL    |       |
```

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```
mysql>
mysql> alter table student add column Address varchar(30);
Query OK, 0 rows affected (0.14 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc student;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| Rollno  | int         | NO   | PRI | NULL    |       |
| Name    | varchar(20) | YES  |     | NULL    |       |
| Age     | int         | YES  |     | NULL    |       |
| dno     | int         | YES  | MUL | NULL    |       |
| Address | varchar(30) | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> mysql> insert into dept (1,'MCA');
Query OK, 1 row affected (0.03 sec)

mysql> insert into dept(2,'MBA');
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 n
ear '2,'MBA')' at line 1
mysql> desc dept;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| dno   | int         | NO   | PRI | NULL    |       |
| dname | varchar(20) | NO   |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.01 sec)

mysql> insert into dept(2,'MBA');
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 n
```

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```
| dno    | int          | NO   | PRI | NULL    |         |
| dname  | varchar(20)  | NO   |     | NULL    |         |
+--------+--------------+------+-----+---------+---------+
2 rows in set (0.01 sec)

mysql> insert into dept(2,'MBA');
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 n
ear '2,'MBA')' at line 1
mysql> insert into dept (2,'MBA');
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 n
ear '2,'MBA')' at line 1
mysql> insert into dept values (1,'MCA');
ERROR 1062 (23000): Duplicate entry '1' for key 'dept.PRIMARY'
mysql> insert into dept values (2,'MBA');
Query OK, 1 row affected (0.03 sec)

mysql> insert into dept values (3,'EEE');
Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO dept values (4,'CSE');
Query OK, 1 row affected (0.05 sec)

mysql> insert into dept values (5,'B TECH');
Query OK, 1 row affected (0.04 sec)

mysql> select * from dept;
+-----+--------+
| dno | dname  |
+-----+--------+
|   1 | MCA    |
|   2 | MBA    |
|   3 | EEE    |
|   4 | CSE    |
|   5 | B TECH |
+-----+--------+
```

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```
|   3 | EEE    |
|   4 | CSE    |
|   5 | B TECH |
+-----+--------+
5 rows in set (0.00 sec)

mysql> insert into student values (1,'ANIL',23,3,'dfgh');
Query OK, 1 row affected (0.05 sec)

mysql> insert into student values (2,'AKHIL',25,1,'HKfgh');
Query OK, 1 row affected (0.05 sec)

mysql> insert into student values (4,'ARUN',3,5,'dgh');
ERROR 3819 (HY000): Check constraint 'student_chk_1' is violated.
mysql> insert into student values (7,'ARUN',23,5,'dgh');
Query OK, 1 row affected (0.04 sec)

mysql> insert into student values (3,'ANIL',27,6,'dfgh');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`23mca12`.`student`, CONSTRAINT `student_ibfk_1` FOREIGN KEY (`d
no`) REFERENCES `dept` (`dno`))
mysql> insert into student values (3,'ANIL',23,5,'dfgh');
Query OK, 1 row affected (0.06 sec)

mysql> SELECT *from student;
+--------+-------+------+------+---------+
| Rollno | Name  | Age  | dno  | Address |
+--------+-------+------+------+---------+
|      1 | ANIL  |   23 |    3 | dfgh    |
|      2 | AKHIL |   25 |    1 | HKfgh   |
|      3 | ANIL  |   23 |    5 | dfgh    |
|      7 | ARUN  |   23 |    5 | dgh     |
+--------+-------+------+------+---------+
4 rows in set (0.00 sec)

mysql>
```