

```
(base) sahilkumar@SAHILs-MacBook-Air ~ % mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 26
Server version: 8.3.0 Homebrew
```

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

```
mysql> create database userDetails;
Query OK, 1 row affected (0.06 sec)
```

```
mysql> use userDetails;
Database changed
mysql>
```

```
mysql> create table cities (id int primary key auto_increment,name varchar(300) not null);
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> create table addresses ( id int primary key auto_increment,
-> street varchar(300) not null,
-> house_number varchar(50) not null,
-> city_id int not null);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> create table users (id int primary key auto_increment,first_name varchar(300) not null ,
-> last_name varchar(300) not null,
-> email varchar(300) not null,
-> address_id int not null,
-> foreign key (address_id) reference addresses(id) on delete set null);
```

```
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 'reference addresses(id) on delete set null)' at line 5
mysql> create table users (id int primary key auto_increment,first_name varchar(300) not null , last_name varchar(300) not null,
email varchar(300) not null, address_id int not null, foreign key (address_id) reference addresses(id) on delete restrict);
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 'reference addresses(id) on delete restrict)' at line 1
```

```
mysql>
mysql>
mysql>
mysql> create table users (id int primary key auto_increment,first_name varchar(300) not null , last_name varchar(300) not null,
email varchar(300) not null, address_id int not null, foreign key (address_id) references addresses(id) on delete restrict);
Query OK, 0 rows affected (0.06 sec)
```

```
mysql>
mysql> insert into cities (name) values ("NY"),("LA"),("Berlin");
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> insert into addresses(street , house_number , city_id)
-> values ("TestStreet","7A",3),
-> ("TestStreet","7A",3),
-> , ("Some Street","9",1),
-> ("TestStreet","1",3),
-> ("My Street","101",2);
">
"> ;
">
"> "
-> ;
```

```
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 '1",3),
("My Street","101",2);
```

```
;
```

```
' at line 5
mysql> insert into addresses(street , house_number , city_id) values ("TestStreet","7A",3), ("TestStreet","7A",3) , ("Some Street",
"9",1), ("TestStreet","1",3),
("My Street","101",2);
```

```
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> insert into users (first_name,last_name,email,address_id) values
-> ("Ravi","Yadav","ravi23@gmail.com"),
-> ("Emanuel","Chris","Emu123@gmail.com"),
-> ;;
```

```
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 3
```

```
ERROR:
No query specified
```

```
mysql> insert into users (first_name,last_name,email,address_id) values ("Ravi","Yadav","ravi23@gmail.com",2), ("Emanuel","Chris",
"Emu123@gmail.com",4),("Thomas","hardy","thommas@gmail.com",3);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql>
mysql> select * from users;
+-----+-----+-----+-----+-----+
| id | first_name | last_name | email | address_id |
+-----+-----+-----+-----+-----+

```

| | | | | |
|---|---------|-------|-------------------|---|
| 1 | Ravi | Yadav | ravi23@gmail.com | 2 |
| 2 | Emanuel | Chris | Emu123@gmail.com | 4 |
| 3 | Thomas | hardy | thommas@gmail.com | 3 |

3 rows in set (0.01 sec)

mysql> select * from addresses;

| id | street | house_number | city_id |
|----|-------------|--------------|---------|
| 1 | TestStreet | 7A | 3 |
| 2 | TestStreet | 7A | 3 |
| 3 | Some Street | 9 | 1 |
| 4 | TestStreet | 1 | 3 |
| 5 | My Street | 101 | 2 |

5 rows in set (0.00 sec)

mysql> select * from cities;

| id | name |
|----|--------|
| 1 | NY |
| 2 | LA |
| 3 | Berlin |

3 rows in set (0.00 sec)

mysql> insert into users (first_name,last_name,email,address_id) values ("Steve","jr","stew@gmail.com",100);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`userdetails`.`users`, CONSTRAINT `users_ibfk_1` FOREIGN KEY (`address_id`) REFERENCES `addresses` (`id`) ON DELETE RESTRICT)

mysql>

mysql> delete from addresses where id = 2;

ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`userdetails`.`users`, CONSTRAINT `users_ibfk_1` FOREIGN KEY (`address_id`) REFERENCES `addresses` (`id`) ON DELETE RESTRICT)

mysql>

mysql> delete from users where id = 1;

Query OK, 1 row affected (0.01 sec)

mysql> select * from users;

| id | first_name | last_name | email | address_id |
|----|------------|-----------|-------------------|------------|
| 2 | Emanuel | Chris | Emu123@gmail.com | 4 |
| 3 | Thomas | hardy | thommas@gmail.com | 3 |

2 rows in set (0.01 sec)

mysql> select * from cities;

| id | name |
|----|--------|
| 1 | NY |
| 2 | LA |
| 3 | Berlin |

3 rows in set (0.00 sec)

mysql> select * from addresses;

| id | street | house_number | city_id |
|----|-------------|--------------|---------|
| 1 | TestStreet | 7A | 3 |
| 2 | TestStreet | 7A | 3 |
| 3 | Some Street | 9 | 1 |
| 4 | TestStreet | 1 | 3 |
| 5 | My Street | 101 | 2 |

5 rows in set (0.00 sec)

mysql>

mysql>