```
Enter password: *******
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.29 MySQL Community Server - GPL

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owners.

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

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| demo               |
| demo2              |
| information_schema |
| jyoti              |
| mysql              |
| mysql_demo         |
| performance_schema |
| sql_workbench      |
| sys                |
| test               |
+--------------------+
10 rows in set (0.01 sec)

mysql> create database fycs;
Query OK, 1 row affected (0.04 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| demo               |
| demo2              |
| fycs               |
| information_schema |
| jyoti              |
| mysql              |
| mysql_demo         |
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| performance_schema |
| sql_workbench      |
| sys                |
| test               |
+--------------------+
11 rows in set (0.00 sec)

mysql> use fycs;
Database changed
mysql> show tables;
Empty set (0.01 sec)

mysql> create table student(sid int, sname varchar(20), contact int,
city varchar(10));
Query OK, 0 rows affected (0.09 sec)

mysql> show tables;
+----------------+
| Tables_in_fycs |
+----------------+
| student        |
+----------------+
1 row in set (0.00 sec)

mysql> insert into student(sid, sname, contact, city) values(1,
'Rohan', 12345, 'Mumbai');
Query OK, 1 row affected (0.03 sec)

mysql> select * from student;
+------+-------+---------+--------+
| sid  | sname | contact | city   |
+------+-------+---------+--------+
|    1 | Rohan |   12345 | Mumbai |
+------+-------+---------+--------+
1 row in set (0.00 sec)

mysql> insert into student values(2, 'Ankita', 12345, 'Delhi');
Query OK, 1 row affected (0.02 sec)

mysql> select * from student;
+------+--------+---------+--------+
| sid  | sname  | contact | city   |
+------+--------+---------+--------+
|    1 | Rohan  |   12345 | Mumbai |
|    2 | Ankita |   12345 | Delhi  |
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+------+--------+---------+--------+
2 rows in set (0.00 sec)

mysql> insert into student values(3, 'Soham', 12345, 'Mumbai');
Query OK, 1 row affected (0.02 sec)

mysql> insert into student values(4, 'Shruti', 12345, 'Delhi');
Query OK, 1 row affected (0.01 sec)

mysql> insert into student(sname, sid, contact, city) values('Rohan',
'5', 12345, 'Mumbai');
Query OK, 1 row affected (0.01 sec)

mysql> insert into student values('Shruti', '6', 12345, 'Delhi');
ERROR 1366 (HY000): Incorrect integer value: 'Shruti' for column 'sid'
at row 1
mysql> select * from student;
+------+--------+---------+--------+
| sid  | sname  | contact | city   |
+------+--------+---------+--------+
|    1 | Rohan  |   12345 | Mumbai |
|    2 | Ankita |   12345 | Delhi  |
|    3 | Soham  |   12345 | Mumbai |
|    4 | Shruti |   12345 | Delhi  |
|    5 | Rohan  |   12345 | Mumbai |
+------+--------+---------+--------+
5 rows in set (0.00 sec)

mysql> update student set city='Hyderabad' where sid=5;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from student;
+------+--------+---------+-----------+
| sid  | sname  | contact | city      |
+------+--------+---------+-----------+
|    1 | Rohan  |   12345 | Mumbai    |
|    2 | Ankita |   12345 | Delhi     |
|    3 | Soham  |   12345 | Mumbai    |
|    4 | Shruti |   12345 | Delhi     |
|    5 | Rohan  |   12345 | Hyderabad |
+------+--------+---------+-----------+
5 rows in set (0.00 sec)

mysql> update student set sname='Raju' where sname='Rohan';
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Query OK, 2 rows affected (0.03 sec)
Rows matched: 2  Changed: 2  Warnings: 0

mysql> select * from student;
+------+--------+---------+-----------+
| sid  | sname  | contact | city      |
+------+--------+---------+-----------+
|    1 | Raju   |   12345 | Mumbai    |
|    2 | Ankita |   12345 | Delhi     |
|    3 | Soham  |   12345 | Mumbai    |
|    4 | Shruti |   12345 | Delhi     |
|    5 | Raju   |   12345 | Hyderabad |
+------+--------+---------+-----------+
5 rows in set (0.00 sec)

mysql> delete from student;
Query OK, 5 rows affected (0.02 sec)

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

mysql> insert into student(sid, sname, contact, city) values(1,
'Rohan', 12345, 'Mumbai');
Query OK, 1 row affected (0.01 sec)

mysql> insert into student(sid, sname, contact, city) values(1,
'Rohan', 12345, 'Mumbai');
Query OK, 1 row affected (0.01 sec)

mysql> insert into student(sid, sname, contact, city) values(1,
'Rohan', 12345, 'Mumbai');
Query OK, 1 row affected (0.02 sec)

mysql> select * from student;
+------+-------+---------+--------+
| sid  | sname | contact | city   |
+------+-------+---------+--------+
|    1 | Rohan |   12345 | Mumbai |
|    1 | Rohan |   12345 | Mumbai |
|    1 | Rohan |   12345 | Mumbai |
+------+-------+---------+--------+
3 rows in set (0.00 sec)

mysql> insert into student(sid, sname, contact, city) values(2,
'Rohan', 12345, 'Mumbai');
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```
Query OK, 1 row affected (0.01 sec)

mysql> select * from student;
+------+-------+---------+--------+
| sid  | sname | contact | city   |
+------+-------+---------+--------+
|    1 | Rohan |   12345 | Mumbai |
|    1 | Rohan |   12345 | Mumbai |
|    1 | Rohan |   12345 | Mumbai |
|    2 | Rohan |   12345 | Mumbai |
+------+-------+---------+--------+
4 rows in set (0.00 sec)

mysql> delete from student where sid=1;
Query OK, 3 rows affected (0.02 sec)

mysql> select * from student;
+------+-------+---------+--------+
| sid  | sname | contact | city   |
+------+-------+---------+--------+
|    2 | Rohan |   12345 | Mumbai |
+------+-------+---------+--------+
1 row in set (0.00 sec)

mysql> show tables;
+----------------+
| Tables_in_fycs |
+----------------+
| student        |
+----------------+
1 row in set (0.00 sec)

mysql> drop table student;
Query OK, 0 rows affected (0.04 sec)

mysql> show tables;
Empty set (0.00 sec)

mysql> create table student(sid int not null, sname varchar(10));
Query OK, 0 rows affected (0.07 sec)

mysql> insert into student values(1, 'Shruti');
Query OK, 1 row affected (0.02 sec)

mysql> insert into student(sname) values('Soham');
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ERROR 1364 (HY000): Field 'sid' doesn't have a default value
mysql> insert into student(sid) values(2);
Query OK, 1 row affected (0.03 sec)

mysql> select * from student;
+-----+--------+
| sid | sname  |
+-----+--------+
|   1 | Shruti |
|   2 | NULL   |
+-----+--------+
2 rows in set (0.00 sec)

mysql> create table employee(eid int, ename varchar(20), primary
key(eid));
Query OK, 0 rows affected (0.06 sec)

mysql> insert into employee values(1, 'A');
Query OK, 1 row affected (0.02 sec)

mysql> insert into employee values(1, 'A');
ERROR 1062 (23000): Duplicate entry '1' for key 'employee.PRIMARY'
mysql> insert into employee values(2, 'A');
Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(sname) values('B');
ERROR 1054 (42S22): Unknown column 'sname' in 'field list'
mysql> insert into employee(ename) values('B');
ERROR 1364 (HY000): Field 'eid' doesn't have a default value
mysql> create table dept(did int primary key, dname varchar(10), eid
int references employee(eid));
Query OK, 0 rows affected (0.07 sec)

mysql> insert into dept values(11, 'CS', 1);
Query OK, 1 row affected (0.03 sec)

mysql> select * from dept;
+-----+-------+------+
| did | dname | eid  |
+-----+-------+------+
|  11 | CS    |    1 |
+-----+-------+------+
1 row in set (0.00 sec)

mysql> select * from employee;
```

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+-----+-------+
| eid | ename |
+-----+-------+
|   1 | A     |
|   2 | A     |
+-----+-------+
2 rows in set (0.00 sec)

mysql> insert into dept values(11, 'CS', 3);
ERROR 1062 (23000): Duplicate entry '11' for key 'dept.PRIMARY'
mysql> insert into dept values(12, 'CS', 3);
Query OK, 1 row affected (0.01 sec)

mysql> drop table dept;
Query OK, 0 rows affected (0.03 sec)

mysql> create table dept(did int primary key, dname varchar(10), eid
int, foreign key(eid) references employee(eid));
Query OK, 0 rows affected (0.07 sec)

mysql> insert into dept values(11, 'CS', 1);
Query OK, 1 row affected (0.02 sec)

mysql> insert into dept values(12, 'CS', 3);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key
constraint fails (`fycs`.`dept`, CONSTRAINT `dept_ibfk_1` FOREIGN KEY
(`eid`) REFERENCES `employee` (`eid`))
mysql> insert into dept values(12, 'CS', 2);
Query OK, 1 row affected (0.01 sec)

mysql> create table demo(id int unique, name varchar(20), age int,
city varchar(20) default 'Mumbai', check(age<=18));
Query OK, 0 rows affected (0.06 sec)

mysql> insert into demo values(1, 'A', 19, 'Delhi');
ERROR 3819 (HY000): Check constraint 'demo_chk_1' is violated.
mysql> insert into demo values(1, 'A', 17, 'Delhi');
Query OK, 1 row affected (0.01 sec)

mysql> insert into demo values(1, 'A', 17, 'Delhi');
ERROR 1062 (23000): Duplicate entry '1' for key 'demo.id'
mysql> insert into demo values(2, 'A', 17, 'Delhi');
Query OK, 1 row affected (0.02 sec)

mysql> insert into demo(id, name, age) values(3, 'A', 18);
```

```
Query OK, 1 row affected (0.02 sec)

mysql> select * from demo;
+------+------+------+--------+
| id   | name | age  | city   |
+------+------+------+--------+
|    1 | A    |   17 | Delhi  |
|    2 | A    |   17 | Delhi  |
|    3 | A    |   18 | Mumbai |
+------+------+------+--------+
3 rows in set (0.00 sec)

mysql>
```