```
[sudo] password for ashtrayO9:
root@ashtrayO9:~# sudo systemctl start mysql
root@ashtrayO9:~# mysql –u root –p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.35–0ubuntu0.22.04.1 (Ubuntu)
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
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affiliates. Other names may be trademarks of their respective
 owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE DATABASE university;
Query OK, 1 row affected (0.01 sec)
mysql> CREATE TABLE student (
-> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
-> name VARCHAR(50) NOT NULL,
-> course INT,
-> GPA DECIMAL(3,2) NOT NULL
ERROR 1046 (3D000): No database selected mysql> USE university;
Database changed
mysql> CREATE TABLE student (
-> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
-> name VARCHAR(50) NOT NULL,
-> course INT NOT NULL,
-> GPA DECIMAL(3,2) NOT NULL
Query OK, O rows affected (0.02 sec)
mysql>
mysql> CREATE TABLE Student (
-> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
      -> name VARCHAR (70) NOT NULL,
-> course INT NOT NULL,
-> GPA DECIMAL(3,2)
 Query OK, O rows affected (0.03 sec)
 mysql> SHOW TABLES;
   Tables_in_University |
   Student
1 row in set (0.00 sec)
mysql> INSERT INTO Student (name,course,GPA) VALUES ("Booth","2","4.25");
Query OK, 1 row affected (0.03 sec)
mysql> INSERT INTO Student (name,course,GPA) VALUES ("Candy","3","4.45");
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO Student (name,course,GPA) VALUES ("Molly","2","3.45");
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Student (name,course,GPA) VALUES ("Kate","2","3.85");
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Student (name,course,GPA) VALUES ("Alex","4","4.50");
Query OK, 1 row affected (0.05 sec)
```

nysql> _

```
id | name
                      course
                                        GPA
                                        4.25
           Booth
                                       4.45
3.45
3.85
4.50
           Candy
          Molly
Kate
           Alex
  rows in set (0.00 sec)
mysql> SELECT * FROM Student WHERE course=2;
   id | name | course | GPA
                                        4.25
           Booth
                                        3.45
3.85
           Molly
3 rows in set (0.00 sec)
mysql> UPDATE Student SET GPA = GPA + 0.5 WHERE GPA < 4.51;
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5 Changed: 5 Warnings: 0
mysql> SELECT * FROM Student;
   id | name | course | GPA
                                       4.75
4.95
3.95
4.35
5.00
           Booth
           Candy
           Molly
Kate
   rows in set (0.00 sec)
mysql> _
 mysql> UPDATE Student SET GPA + GPA + 0.25 WHERE id = 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 '+ GPA + 0.25 WHERE id = 2' at line 1
mysql> UPDATE Student SET GPA = GPA + 0.25 WHERE id = 2;
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0
  mysql> SELECT * FROM Student;
    id | name | course | GPA |
             Booth
                                         5.20
3.95
4.35
5.00
             Candy
            Molly
            Alex
 5 rows in set (0.00 sec)
  mysql>
 mysql> UPDATE Student SET GPA = 5 WHERE id = 5;
Query OK, O rows affected (0.00 sec)
Rows matched: 1 Changed: O Warnings: O
  mysql> SELECT * FROM Student;
    id | name | course | GPA
                                         4.75
5.20
3.95
4.35
5.00
             Booth
Candy
             Molly
  5 rows in set (0.00 sec)
  nysql>
```

```
mysql> UPDATE Student SEt name = 'Ivan Petrov' WHERE id = 2;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM Student;
  id | name
                          | course | GPA
                                      4.75
5.20
3.95
4.35
5.00
         Booth
         Ivan Petrov
      Molly
        Kate
  rows in set (0.00 sec)
mysql>
mysql> INSERT INTO Student (name,course,GPA) VALUES ("Tolik","1","2.85");
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Student (name,course,GPA) VALUES ("Dima","3","2.54");
Query OK, 1 row affected (0.00 sec)
mysql> SELECT * FROM Student;
  id | name
                          | course | GPA
                                        4.75
5.20
3.95
4.35
5.00
2.85
2.54
         Booth
          Ivan Petrov
    4
       | Tolik
| Dima
  rows in set (0.00 sec)
mysql> _
  mysql> BEGIN;
  Query OK, O rows affected (0.00 sec)
  mysql> DELETE FROM Student WHERE GPA < 3;
  Query OK, 2 rows affected (0.00 sec)
  mysql> INSERT INTO Student (name,course,GPA) VALUES ("Oleksiy Kovalenko","1","4.20");
Query OK, 1 row affected (0.00 sec)
  mysql> COMMIT;
  Query OK, O rows affected (0.05 sec)
   mysql> SELECT * FROM Student;
                                      course | GPA
     id | name
           Booth
                                              23224
                                                  5.20
3.95
4.35
5.00
4.20
            Ivan Petrov
           Molly
           Oleksiy Kovalenko
    rows in set (0.00 sec)
mysql> UPDATE Student SET id = 6 WHERE name = "Oleksiy Kovalenko";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM Student;
  id | name
                                              | GPA
                                  course
                                                4.75
5.20
3.95
4.35
5.00
         Booth
   1
2
3
         Ivan Petrov
      | Molly
| Kate
                                           4
                                                 4.20
       | Oleksiy Kovalenko
  rows in set (0.00 sec)
mysql> _
```

```
mysql> SELECT * FROM Student WHERE course = 1 AND GPA > 4;
| id | name
 6 | Oleksiy Kovalenko | 1 | 4.20 |
1 row in set (0.00 sec)
mysql> SELECT * FROM Student WHERE course = 1 ;
6 | Oleksiy Kovalenko | 1 | 4.20 |
1 row in set (0.00 sec)
mysql> SELECT * FROM Student WHERE course = 2 ;
| id | name | course | GPA |
 1 | Booth |
3 | Molly |
4 | Kate |
                 2 | 4.75
2 | 3.95
2 | 4.35
3 rows in set (0.00 sec)
mysql> SELECT * FROM Student WHERE course = 3;
2 | Ivan Petrov | 3 | 5.20 |
1 row in set (0.00 sec)
mysql> SELECT * FROM Student WHERE course = 4;
| id | name | course | GPA |
| 5 | Alex | 4 | 5.00 |
```

1 row in set (0.00 sec)

mysql>