

```
mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'root';
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> CREATE USER 'user1'@'127.0.0.1' IDENTIFIED BY 'root';
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> CREATE DATABASE university;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> GRANT ALL PRIVILEGES ON *.* TO 'user1'@'127.0.0.1';
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> USE university;
Database changed
```

```
mysql> CREATE TABLE students(id INT,name VARCHAR(50),course INT, average_score DECIMAL(3,2),PRIMARY
KEY(id));
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> SHOW TABLES;
```

```
+-----+
| Tables_in_university |
+-----+
| students              |
+-----+
1 row in set (0.00 sec)
```

```
mysql> DESCRIBE students;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int           | NO   | PRI | NULL    |       |
| name       | varchar(50)   | YES  |     | NULL    |       |
| course     | int           | YES  |     | NULL    |       |
| average_score | decimal(3,2) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> INSERT INTO students VALUES(1,'Vitaliy',2,4.45);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO students VALUES(2,'Anna',3,3.45);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> INSERT INTO students VALUES(3,'Boghdana',2,4.95);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO students VALUES(4,'Mykhailo',2,3.95);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO students VALUES(5,'Denys',4,3.55);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT * FROM students;
```

```
+-----+-----+-----+-----+
| id | name      | course | average_score |
+-----+-----+-----+-----+
| 1  | Vitaliy  | 2      | 4.45          |
| 2  | Anna     | 3      | 3.45          |
| 3  | Boghdana | 2      | 4.95          |
| 4  | Mykhailo | 2      | 3.95          |
| 5  | Denys    | 4      | 3.55          |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM students WHERE course=2;
```

id	name	course	average_score
1	Vitaliy	2	4.45
3	Boghdana	2	4.95
4	Mykhailo	2	3.95

```
3 rows in set (0.00 sec)
```

```
mysql> UPDATE students SET average_score=4.95 WHERE name='Vitaliy';
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE students SET average_score=3.95 WHERE name='Anna';
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE students SET average_score=5.45 WHERE name='Boghdana';
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE students SET average_score=4.45 WHERE name='Mykhailo';
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE students SET average_score=4.05 WHERE name='Denys';
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> SELECT * FROM students;
```

id	name	course	average_score
1	Vitaliy	2	4.95
2	Anna	3	3.95
3	Boghdana	2	5.45
4	Mykhailo	2	4.45
5	Denys	4	4.05

```
5 rows in set (0.00 sec)
```

```
mysql> UPDATE students SET name='Ivan_Petrov' WHERE course=3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> SELECT * FROM students;
```

id	name	course	average_score
1	Vitaliy	2	4.95
2	Ivan_Petrov	3	3.95
3	Boghdana	2	5.45
4	Mykhailo	2	4.45
5	Denys	4	4.05

```
5 rows in set (0.00 sec)
```

```
mysql> DELETE FROM students WHERE average_score<3.00;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> SELECT * FROM students;
```

id	name	course	average_score
1	Vitaliy	2	4.95
2	Ivan_Petrov	3	3.95
3	Boghdana	2	5.45
4	Mykhailo	2	4.45
5	Denys	4	4.05

```
5 rows in set (0.00 sec)
```

```
mysql> INSERT INTO students VALUES(5,'Olesiy_Kovalenko',1,4.20);
ERROR 1062 (23000): Duplicate entry '5' for key 'students.PRIMARY'
```

```
mysql> INSERT INTO students VALUES(6,'Olesiy_Kovalenko',1,4.20);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM students;
```

id	name	course	average_score
1	Vitaliy	2	4.95
2	Ivan_Petrov	3	3.95
3	Boghdana	2	5.45
4	Mykhailo	2	4.45
5	Denys	4	4.05
6	Olesiy_Kovalenko	1	4.20

```
6 rows in set (0.00 sec)
```

```
mysql> COMMIT;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM students WHERE course=1 AND average_score > 4.00;
+-----+-----+-----+-----+
| id | name           | course | average_score |
+-----+-----+-----+-----+
| 6  | Olesiy_Kovalenko | 1      | 4.20          |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT COUNT(*) as total_students FROM students;
+-----+
| total_students |
+-----+
| 6              |
+-----+
1 row in set (0.02 sec)
```

```
mysql> DROP TABLE students;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> DROP DATABASE university;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql          |
| performance_schema |
| sys            |
+-----+
4 rows in set (0.00 sec)
```