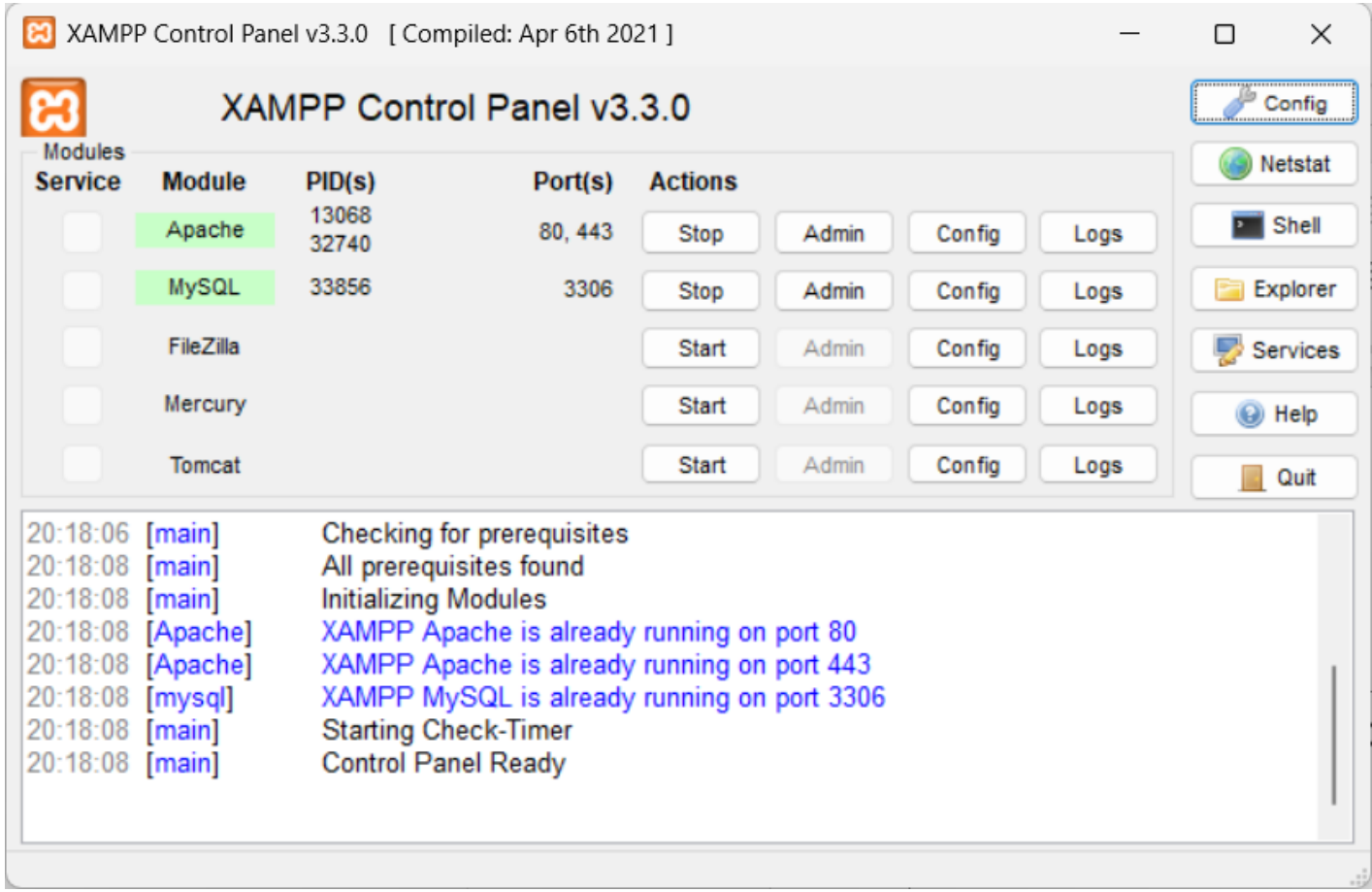
XAMPP on Windows

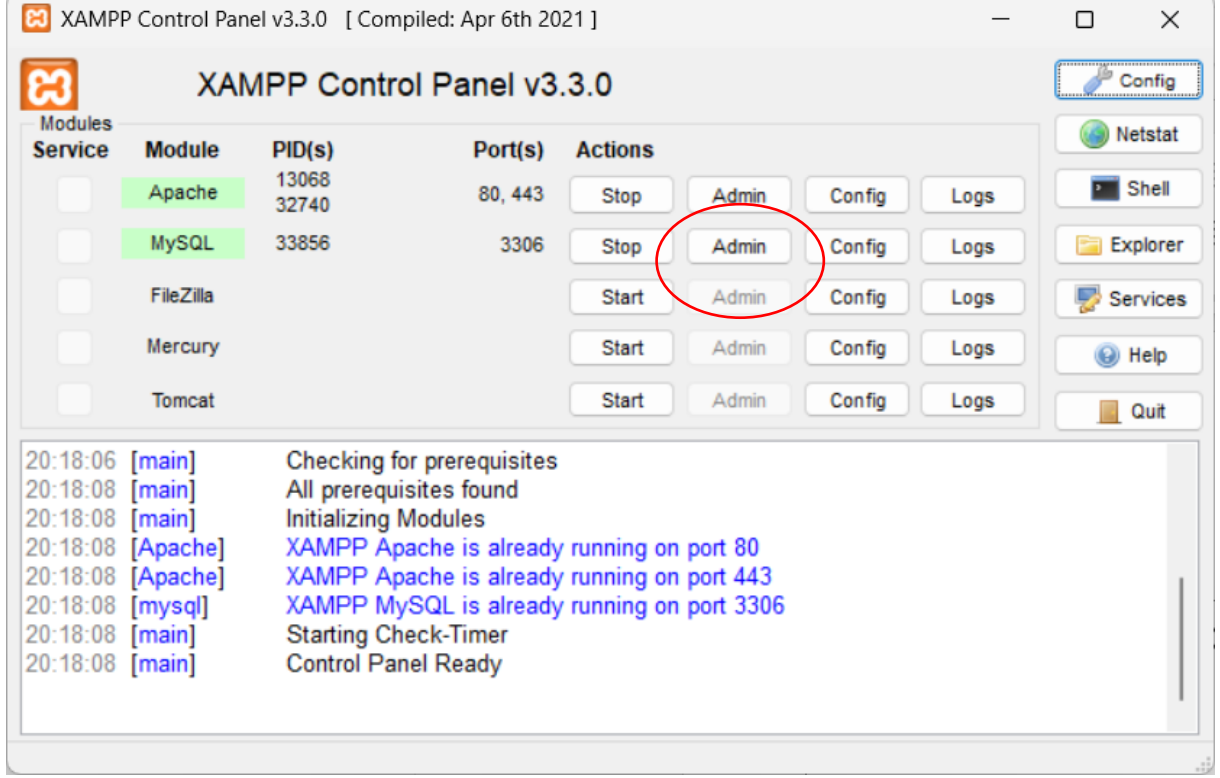
Start the XAMP control panel

- C:\xampp➔xamp-control.exe

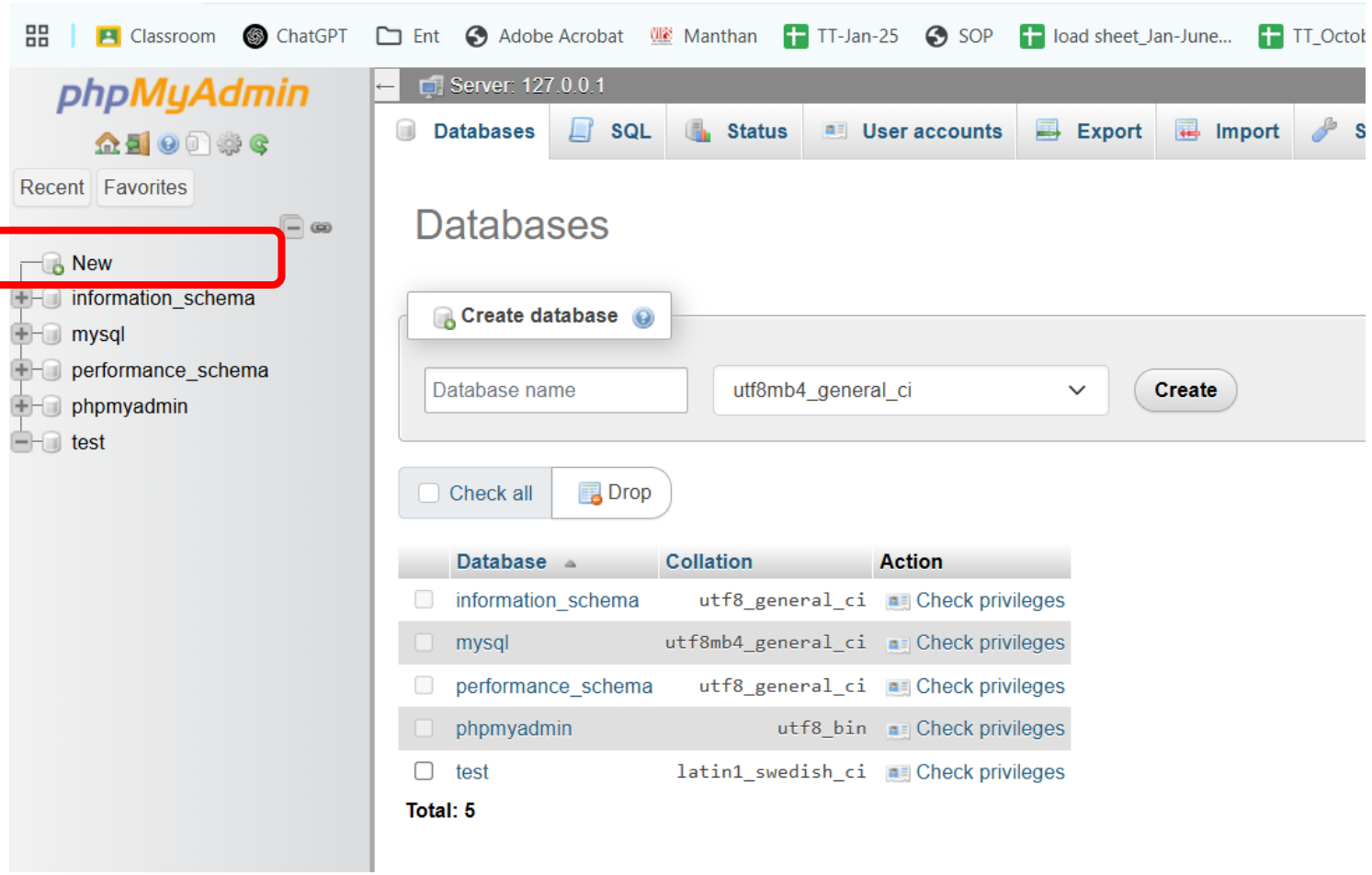


Launch mysql

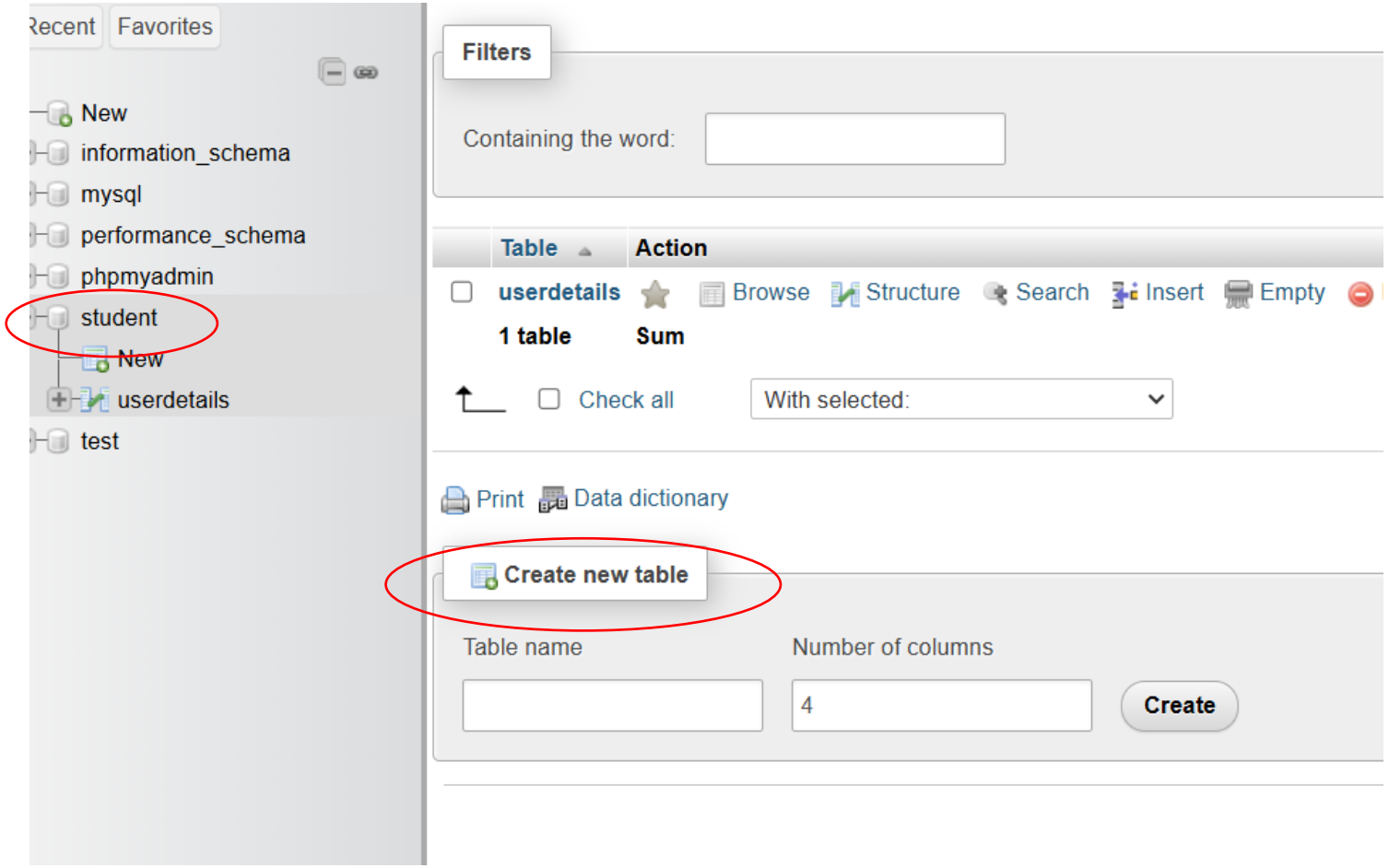
- Click on MySQL Admin
- http://localhost/phpmyadmin/

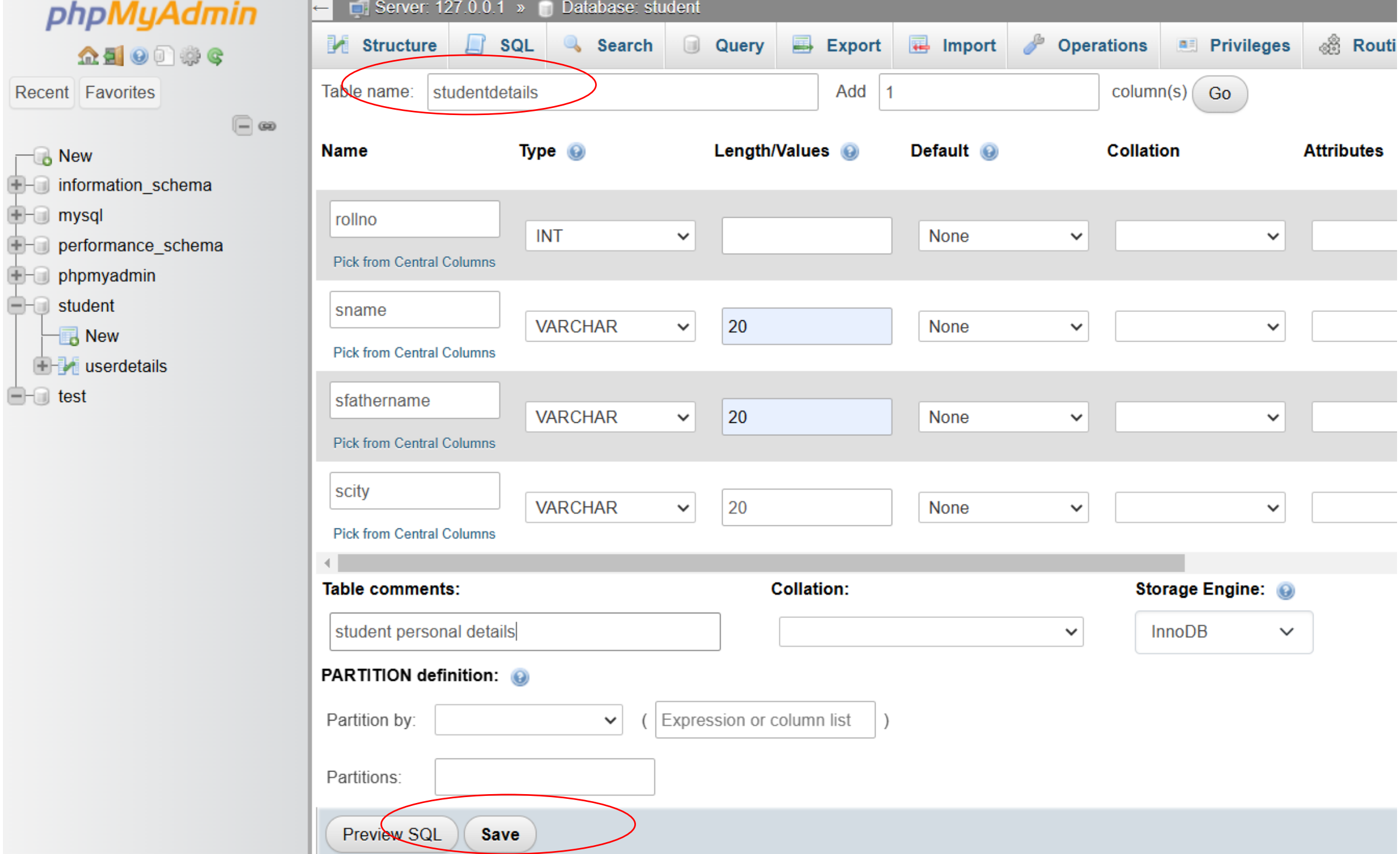


Create New database➔student

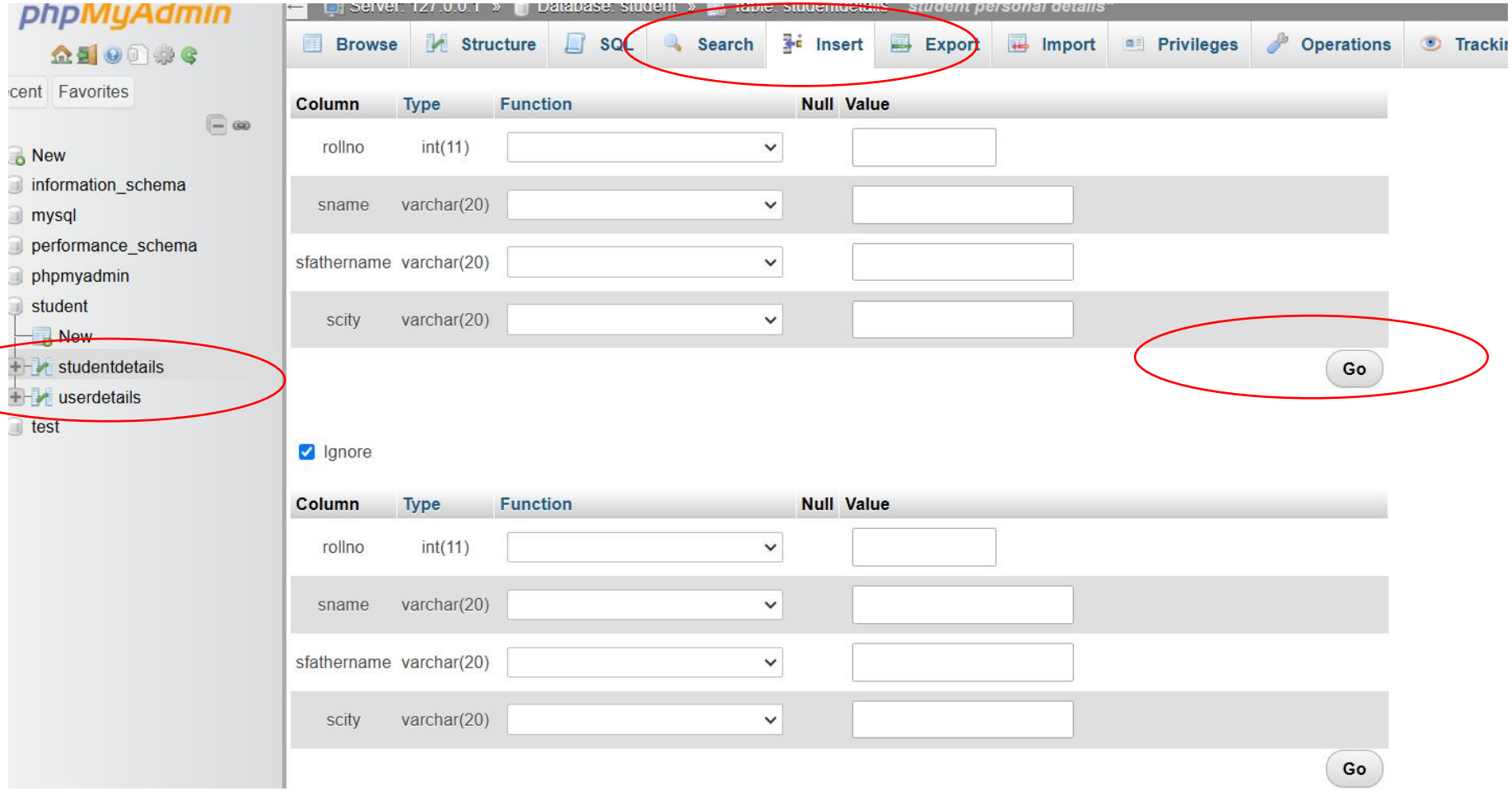


Create New table

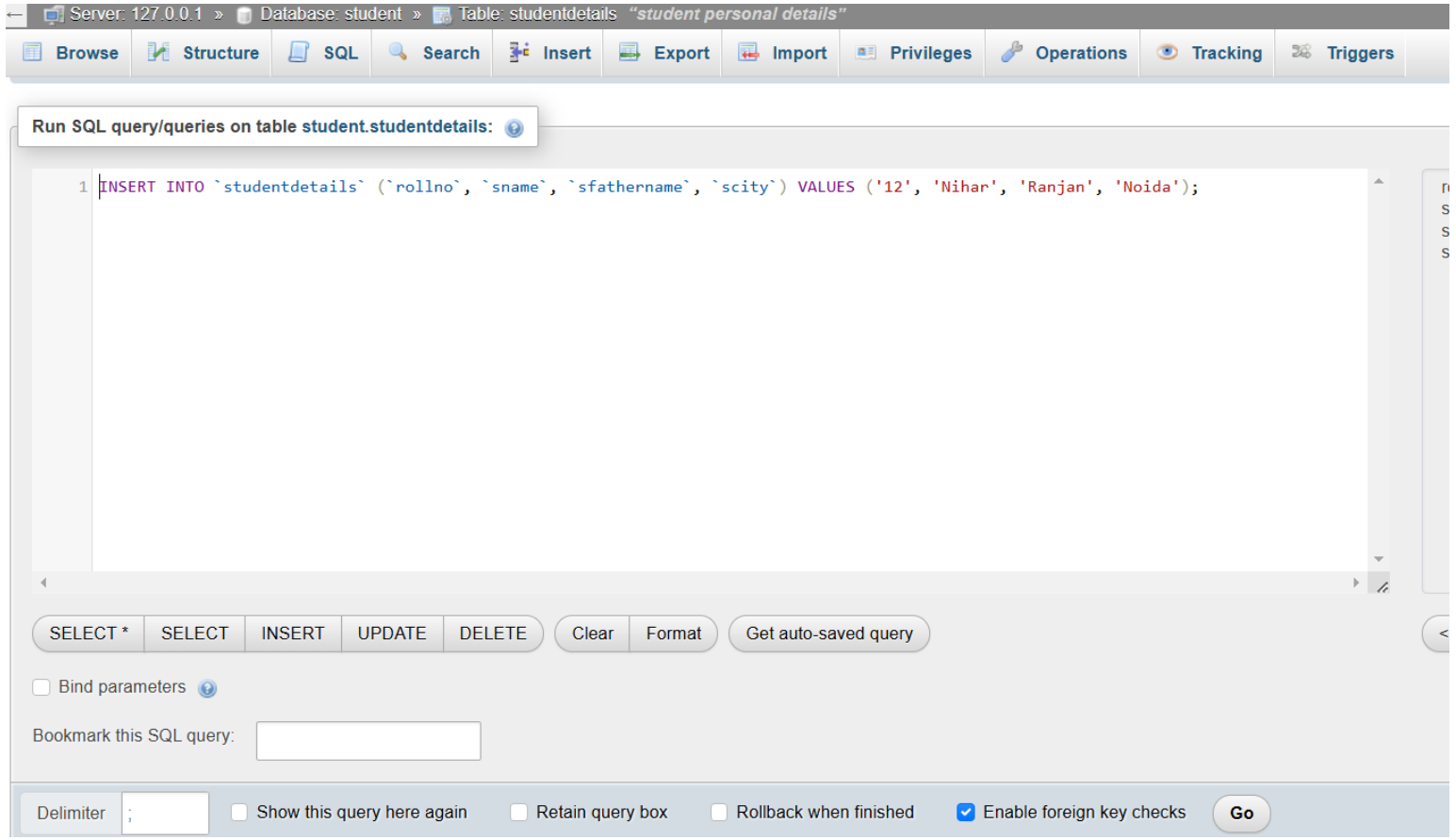



phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
student
New
userdetails
test
Server: 127.0.0.1 » Database: student
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routi
Table name: studentdetails
Add 1 column(s) Go
Name
Type
Length/Values
Default
Collation
Attributes
rollno
INT
None
Pick from Central Columns
sname
VARCHAR
20
None
Pick from Central Columns
sfathername
VARCHAR
20
None
Pick from Central Columns
scity
VARCHAR
20
None
Pick from Central Columns
Table comments:
student personal details
Collation:
Storage Engine:
InnoDB
PARTITION definition:
Partition by:
(Expression or column list)
Partitions:
Preview SQL
Save

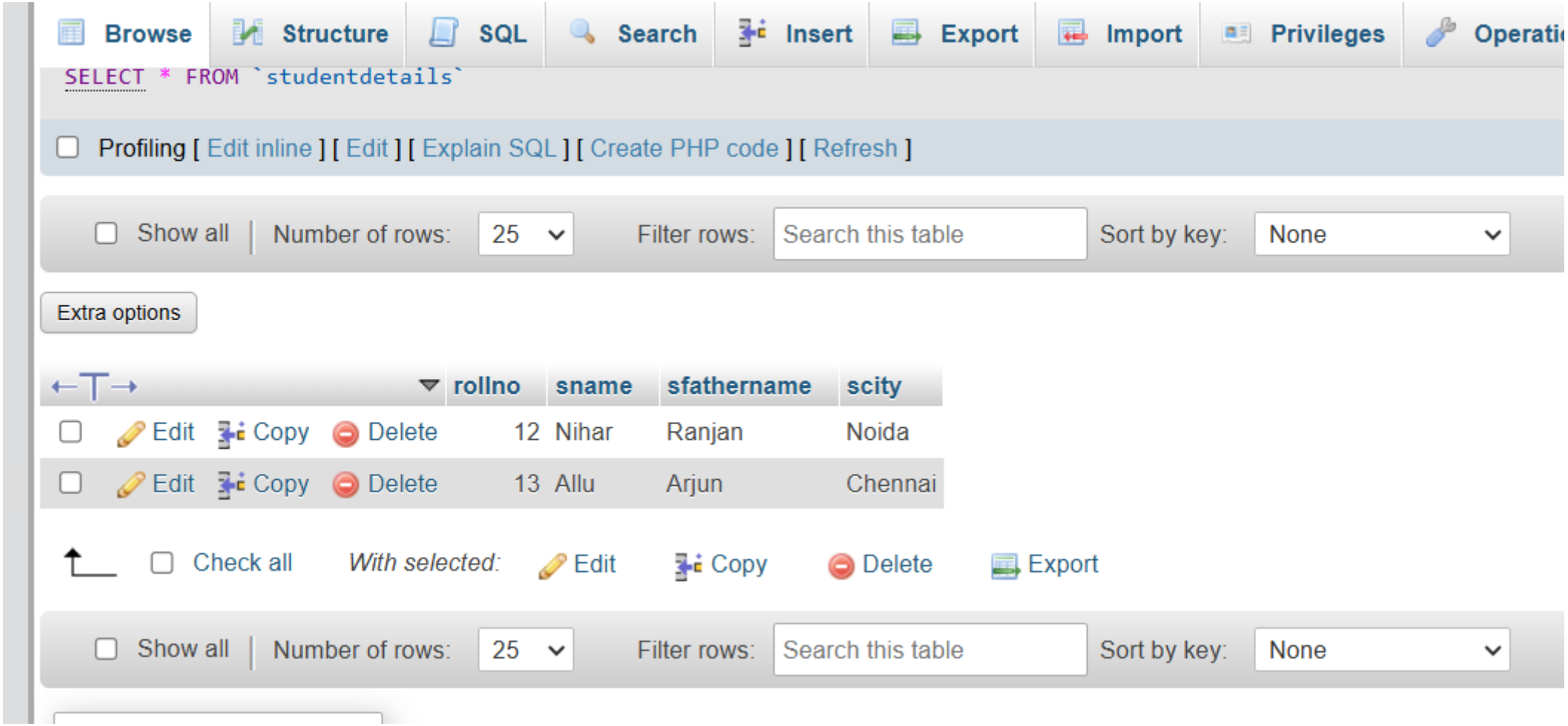
Insert values in the table



Insert values through sql query



Browse table



Change the MySQL/MariaDB root password

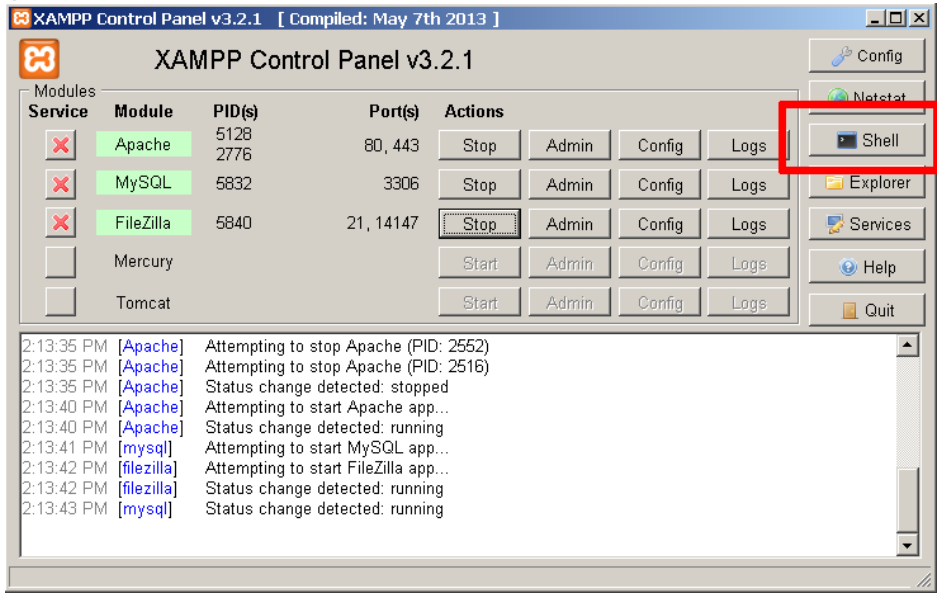
To change the MySQL/MariaDB root password, follow these steps:

1.Ensure that the MySQL/MariaDB server is running.

2.Open your Windows command prompt by clicking the "Shell" button in the XAMPP control panel.

3.Use the mysqladmin command-line utility to alter the MySQL/MariaDB password, using the following syntax:

```
mysqladmin --user=root password "newpassword"
```

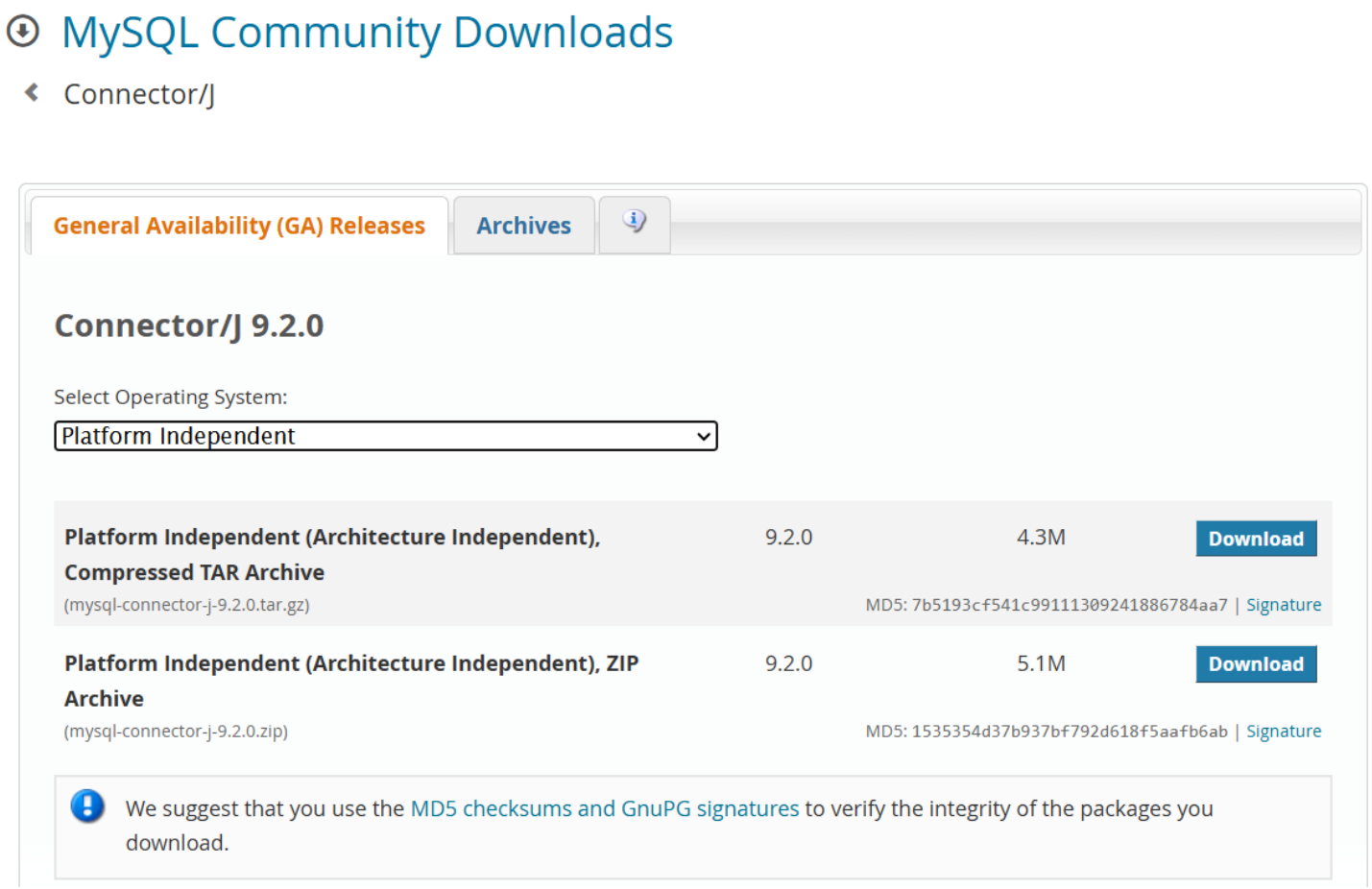


Download mysql driver

- https://dev.mysql.com/downloads/connector/j/

•Extract the downloaded .zip or .tar.gz file.

•Locate the mysql-connector-java-x.x.x.jar file (where x.x.x is the version).



Load the driver

```
Load the MySQL JDBC Driver

try {
Class.forName("com.mysql.cj.jdbc.Driver");
    } catch (ClassNotFoundException e) {
        e.printStackTrace();
}
```

Establish connection

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class MySQLConnection {
    public static void main(String[] args) {
        String url = "jdbc:mysql://localhost:3306/your_database"; // Replace with your DB name
        String user = "your_username"; // MySQL username, in this case its root
        String password = "your_password"; // MySQL password, in this case “”

        try {
            Connection conn = DriverManager.getConnection(url, user, password);
            if (conn != null) {
                System.out.println("Connected to MySQL database successfully!");
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

Execute Query

```
import java.sql.*;
public class ExecuteQueryExample {
    public static void main(String[] args) {
        String url = "jdbc:mysql://localhost:3306/your_database";
        String user = "your_username";
        String password = "your_password";
        try {Connection conn = DriverManager.getConnection(url, user, password);
             Statement stmt = conn.createStatement();
             ResultSet rs = stmt.executeQuery("SELECT * FROM sdetails"));
           while (rs.next()) {
                int rollno = rs.getInt("rollno");
                String name = rs.getString("sname");
                String fatherName = rs.getString("sfathername");
                String city = rs.getString("scity");
                System.out.println(rollno + " | " + name + " | " + fatherName + " | " + city);
            }
        } catch (SQLException e) { e.printStackTrace();
        }
```

Close connection

```
conn.close();
stmt.close();
rs.close();
```

Compile and run

- Assuming that the driver jar file is in the current foler where the .java file is placed.

```
javac -cp ".;mysql-connector-java-x.x.x.jar"
MySQLJDBCExample.java # Windows
```

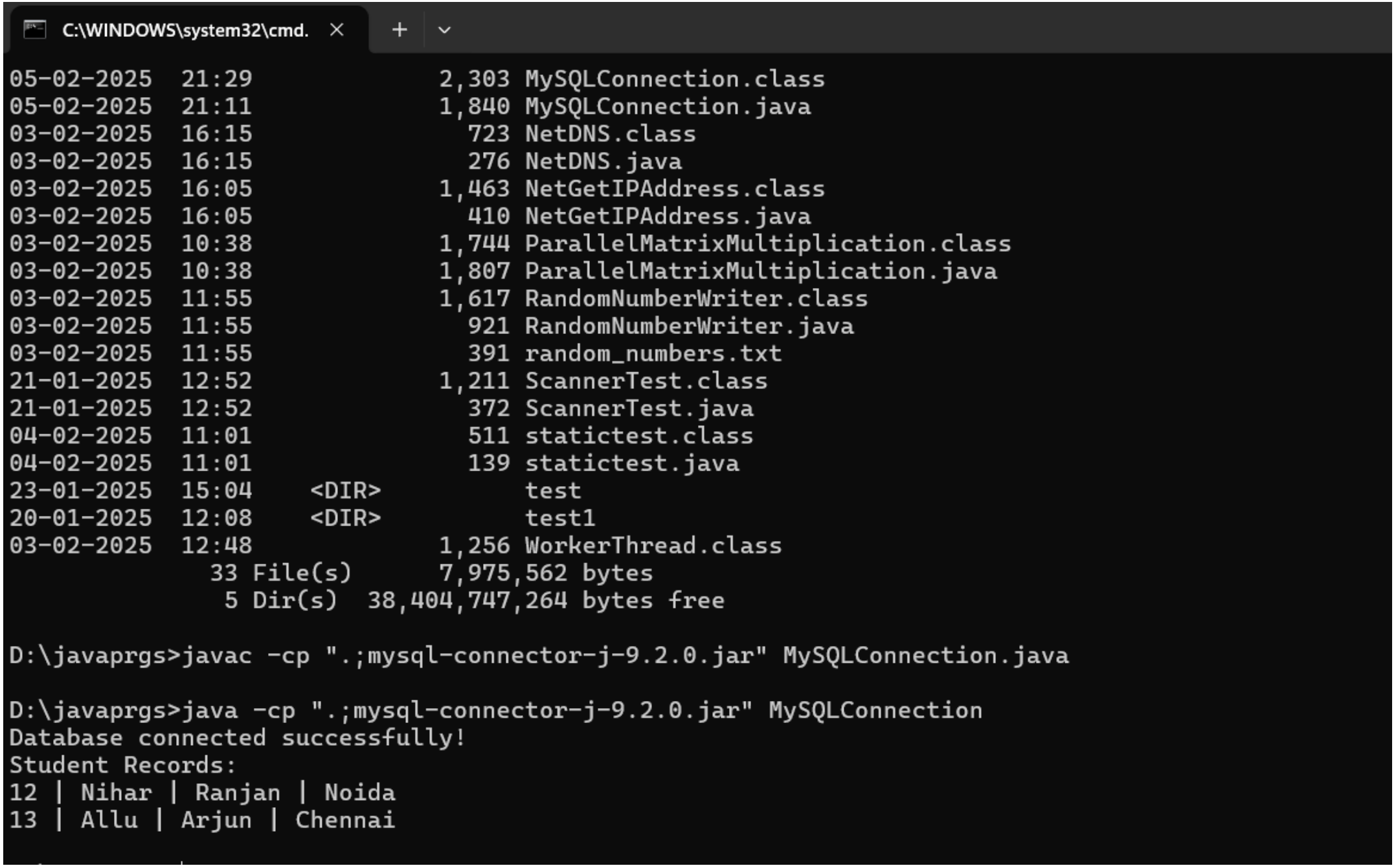
```
Run
```

```
java -cp ".;mysql-connector-java-x.x.x.jar"
MySQLJDBCExample # Windows
```

C:\WINDOWS\system32\cmd.

```
30-01-2025  09:59             1,433 JosephusProblem.class
30-01-2025  09:59             1,381 JosephusProblem.java
03-02-2025  10:38               615 MatrixMultiplier.class
03-02-2025  12:48               875 MultiThreadJoinExample.class
03-02-2025  12:47             1,335 MultiThreadJoinExample.java
05-02-2025  20:57    <DIR>          mysql-connector-j-9.2.0
05-02-2025  20:57         2,609,756 mysql-connector-j-9.2.0.jar
05-02-2025  20:54         5,337,769 mysql-connector-j-9.2.0.zip
05-02-2025  21:29             2,303 MySQLConnection.class
05-02-2025  21:11             1,840 MySQLConnection.java
03-02-2025  16:15               723 NetDNS.class
03-02-2025  16:15               276 NetDNS.java
03-02-2025  16:05             1,463 NetGetIPAddress.class
03-02-2025  16:05               410 NetGetIPAddress.java
03-02-2025  10:38             1,744 ParallelMatrixMultiplication.class
03-02-2025  10:38             1,807 ParallelMatrixMultiplication.java
03-02-2025  11:55             1,617 RandomNumberWriter.class
03-02-2025  11:55               921 RandomNumberWriter.java
03-02-2025  11:55               391 random_numbers.txt
21-01-2025  12:52             1,211 ScannerTest.class
21-01-2025  12:52               372 ScannerTest.java
04-02-2025  11:01               511 statictest.class
04-02-2025  11:01               139 statictest.java
23-01-2025  15:04    <DIR>          test
20-01-2025  12:08    <DIR>          test1
03-02-2025  12:48             1,256 WorkerThread.class
              33 File(s)      7,975,562 bytes
               5 Dir(s)  38,404,747,264 bytes free

D:\javaprgs>javac -cp ".;mysql-connector-j-9.2.0.jar" MySQLConnection.java
```


C:\WINDOWS\system32\cmd.
05-02-2025 21:29   2,303 MySQLConnection.class
05-02-2025 21:11   1,840 MySQLConnection.java
03-02-2025 16:15   723 NetDNS.class
03-02-2025 16:15   276 NetDNS.java
03-02-2025 16:05   1,463 NetGetIPAddress.class
03-02-2025 16:05   410 NetGetIPAddress.java
03-02-2025 10:38   1,744 ParallelMatrixMultiplication.class
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03-02-2025 11:55   1,617 RandomNumberWriter.class
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21-01-2025 12:52   1,211 ScannerTest.class
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23-01-2025 15:04   <DIR>   test
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              33 File(s)   7,975,562 bytes
               5 Dir(s) 38,404,747,264 bytes free
D:\javaprgs>javac -cp ".;mysql-connector-j-9.2.0.jar" MySQLConnection.java
D:\javaprgs>java -cp ".;mysql-connector-j-9.2.0.jar" MySQLConnection
Database connected successfully!
Student Records:
12 | Nihar | Ranjan | Noida
13 | Allu | Arjun | Chennai

Problem

Write a java program to

1. Fetch all the records from the employee table
2. Search employee with empid
3. Update specific employee details
4. Delete a particular employee record

- Employee table has fields in MySQL
  - Empid
  - EmpName
  - EmpCity
  - EmpSalary