

## OUTPUT:

The screenshot shows the HeidiSQL application window. The title bar reads "HeidiSQL - [geetha - /geetha/student]". The menu bar includes File, Edit, Tools, Import, Export, Window, and Help. The toolbar contains various icons for file operations and database actions. The left sidebar shows a tree view of the database structure: root@127.0.0.1, information\_schemas, geetha, student, mysql, and test. The main pane displays the "geetha.student: 3 records total" table with the following data:

ID	Name	Marks
1	Muffin	85
2	Muffin	45
3	Dustin	60

The bottom pane shows the SQL Log with the following queries:

```
100 SHOW TABLE STATUS LIKE 'student'
101 SELECT * FROM 'student'
102 SHOW TABLES LIKE 'student'
103 SHOW COLUMNS FROM 'student' LIKE 'I'
104 SELECT COUNT(*) FROM 'student'
105 SHOW TABLES LIKE 'student'
106 SHOW COLUMNS FROM 'student' LIKE 'I'
```

The status bar at the bottom indicates "geetha: student: 3 field(s)", "Connected: 00:49:15", and "Ready". The system tray shows the date and time as "11-11-2023 15:17".

## EXERCISE-10

10.a)

**Aim:** To demonstrate MYSQL connectivity using Type 4 Driver for Data Insertion using Prepared Statement.

**Code:**

```
import java.sql.*;
import java.lang.*;
class Conn
{
public static void main(String args[])
{
try
{
Class.forName("com.mysql.jdbc.Driver");
Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/geetha","root"
,"root");
PreparedStatement ps=con.prepareStatement("insert into student values(?,?,?)");
ps.setInt(1,1);
ps.setString(2,"Alexa");
ps.setInt(3,85);
ps.setInt(1,2);
ps.setString(2,"Muffin");
ps.setInt(3,45);
ps.setInt(1,3);
ps.setString(2,"Dustin");
ps.setInt(3,60);
int res=ps.executeUpdate();
```



```
System.out.println(res+"records inserted");  
con.close();  
}  
catch(Exception e)  
{  
System.out.println(e);  
}  
}  
}
```

## OUTPUT:

The screenshot displays the HeidiSQL application window. The title bar reads 'HeidiSQL - [geetha - /geetha/student]'. The menu bar includes File, Edit, Tools, Import, Export, Window, and Help. The toolbar contains various icons for file operations and database actions. The left sidebar shows a tree view of the database structure: root@127.0.0.1, information\_schema, geetha, student, mysql, and test. The main pane shows the 'geetha.student' table with 3 records total. The table has columns ID, Name, and Marks. The records are: ID 1, Name Muffin, Marks 85; ID 2, Name Muffin, Marks 45; and ID 3, Name Dustin, Marks 60. The bottom pane shows the SQL Log with the following queries: 22 SHOW TABLE STATUS LIKE 'student', 23 SELECT \* FROM 'student', 24 SHOW TABLES LIKE 'student', 25 SHOW COLUMNS FROM 'student' LIKE 'i', 26 SELECT COUNT(\*) FROM 'student', 27 SHOW TABLES LIKE 'student', and 28 SHOW COLUMNS FROM 'student' LIKE 'i'. The status bar at the bottom indicates 'Connected: 00:07:07' and 'Ready'. The Windows taskbar at the bottom shows the system clock as 19:55 on 16-11-2023.

ID	Name	Marks
1	Muffin	85
2	Muffin	45
3	Dustin	60

```
22 SHOW TABLE STATUS LIKE 'student'
23 SELECT * FROM 'student'
24 SHOW TABLES LIKE 'student'
25 SHOW COLUMNS FROM 'student' LIKE 'i'
26 SELECT COUNT(*) FROM 'student'
27 SHOW TABLES LIKE 'student'
28 SHOW COLUMNS FROM 'student' LIKE 'i'
```

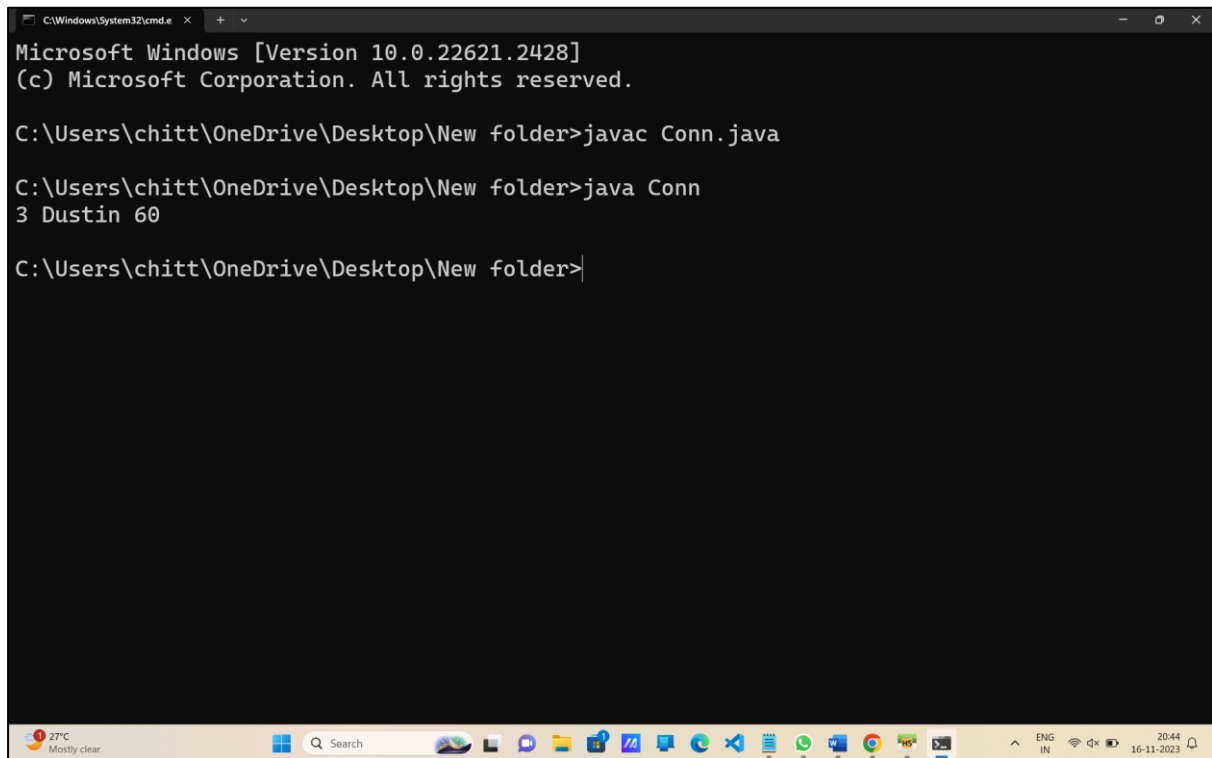
10.b)

**Aim:** To demonstrate MYSQL connectivity using Type 4 Driver for Data Updation using Prepared Statement.

**Code:**

```
import java.sql.*;
import java.lang.*;
class Conn
{
public static void main(final String args[])
{
try
{
Class.forName("com.mysql.jdbc.Driver");
final Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/geetha","root"
,"root");
final PreparedStatement ps=con.prepareStatement("update student set Name=?
where id=?");
ps.setString(1,"AAA");
ps.setInt(2,1);
System.out.println(ps.executeUpdate()+" records inserted");
con.close();
}
catch(Exception e)
{
System.out.println(e);
}
}
}
```

## OUTPUT:



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\chitt\OneDrive\Desktop\New folder>javac Conn.java

C:\Users\chitt\OneDrive\Desktop\New folder>java Conn
3 Dustin 60

C:\Users\chitt\OneDrive\Desktop\New folder>
```

The screenshot shows a Windows command prompt window with a dark background. The title bar indicates the path 'C:\Windows\System32\cmd.exe'. The window displays the output of running a Java program. The first command is 'javac Conn.java', which compiles the source file. The second command is 'java Conn', which runs the program, resulting in the output '3 Dustin 60'. The Windows taskbar is visible at the bottom, showing the date and time as 16-11-2023, 20:44, and the language set to English (IN).

### 10.c)

**Aim:** To demonstrate MYSQL connectivity using Type 4 Driver for Data.

**Code:**

```
import java.sql.*;
import java.lang.*;
class Conn{
public static void main(String args[]){
try{
Class.forName("com.mysql.jdbc.Driver");
Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/geetha","root"
,"root");
PreparedStatement ps=con.prepareStatement("select * from student where
name=?");
ps.setString(1,"Dustin");
ResultSet rs=ps.executeQuery();
while(rs.next())
{
System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3));
}
con.close();
}
catch(Exception e)
{
System.out.println(e);
}
}
}
```