**Exp. No: 24**

**Date:**

**Database Connectivity – Using JAVA & MySQL**

**AIM:** To connect the MySQL using JAVA and to execute the CREATE, INSERT and SELECT command in MySQL.

**Program:**

import java.sql.\*;

public class Main {

public static void main(String[] args) {

// Connect to MySQL database

String url = "jdbc:mysql://localhost:3306/**database\_name**";

String username = "root";

String password = "root";

try (Connection conn = DriverManager.getConnection(url, username, password)) {

System.out.println("Connected to database");

**// Create table**

String createSql = "CREATE TABLE users (id INT PRIMARY KEY AUTO\_INCREMENT, first\_name VARCHAR(255), last\_name VARCHAR(255), email VARCHAR(255))";

try (Statement stmt = conn.createStatement()) {

stmt.executeUpdate(createSql);

System.out.println("Table created");

} catch (SQLException e) {

System.out.println(e.getMessage());

}

**// Insert data**

String insertSql = "INSERT INTO users (first\_name, last\_name, email) VALUES ('John', 'Doe', 'john@example.com')";

try (PreparedStatement pstmt = conn.prepareStatement(insertSql)) {

pstmt.executeUpdate();

System.out.println("Data inserted");

} catch (SQLException e) {

System.out.println(e.getMessage());

}

**// Select data**

String selectSql = "SELECT \* FROM users";

try (Statement stmt = conn.createStatement();

ResultSet rs = stmt.executeQuery(selectSql)) {

while (rs.next()) {

int id = rs.getInt("id");

String firstName = rs.getString("first\_name");

String lastName = rs.getString("last\_name");

String email = rs.getString("email");

System.out.println(id + ": " + firstName + " " + lastName + ", " + email);

}

} catch (SQLException e) {

System.out.println(e.getMessage());

}

} catch (SQLException e) {

System.out.println("Connection to database failed");

System.out.println(e.getMessage());

}

}

}

OUTPUT:

**Result:** Thus the MySQL is connected using JAVA and executed the CREATE, INSERT and SELECT commands in MySQL.