Name – Mahemud Borgave

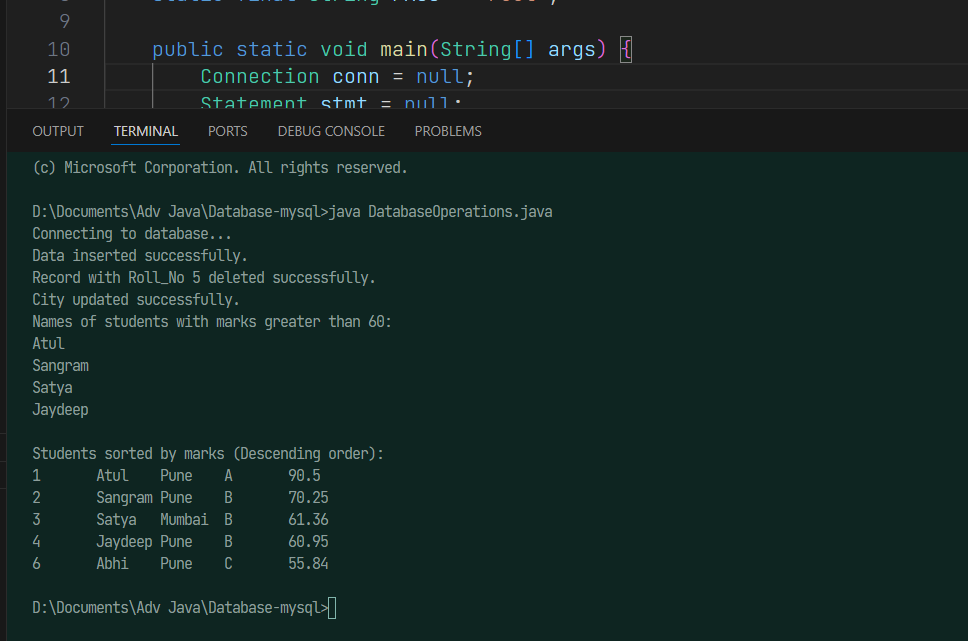
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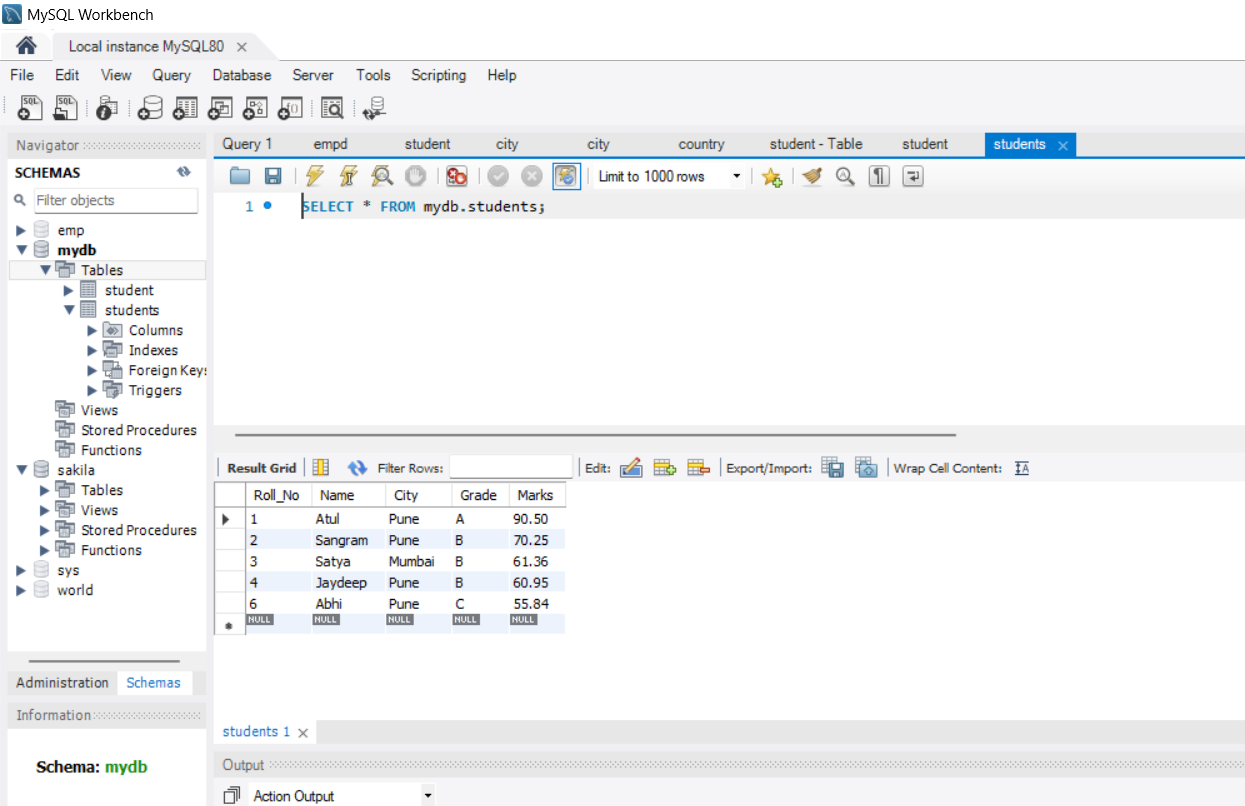
Batch – S3

**Assignment No – 09**

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| import java.sql.\*;  public class DatabaseOperations {  // Database connection parameters  static final String JDBC\_DRIVER = "com.mysql.cj.jdbc.Driver";  static final String DB\_URL = "jdbc:mysql://localhost:3306/mydb"; // Change mydb to your database name  static final String USER = "root";  static final String PASS = "root";  public static void main(String[] args) {  Connection conn = null;  Statement stmt = null;  try {  // Register JDBC driver  Class.forName(JDBC\_DRIVER);  // Open a connection  System.out.println("Connecting to database...");  conn = DriverManager.getConnection(DB\_URL, USER, PASS);  // Create a statement  stmt = conn.createStatement();  // Create Students table  String createTableSQL = "CREATE TABLE IF NOT EXISTS Students ("  + "Roll\_No INT PRIMARY KEY,"  + "Name VARCHAR(255),"  + "City VARCHAR(255),"  + "Grade CHAR(1),"  + "Marks DECIMAL(5,2)"  + ")";  stmt.executeUpdate(createTableSQL);  // Insert data into the table  String[] insertData = {  "INSERT INTO Students VALUES (1, 'Atul', 'Sangli', 'A', 90.50)",  "INSERT INTO Students VALUES (2, 'Sangram', 'Sangli', 'B', 70.25)",  "INSERT INTO Students VALUES (3, 'Satya', 'Mumbai', 'B', 61.36)",  "INSERT INTO Students VALUES (4, 'Jaydeep', 'Pune', 'B', 60.95)",  "INSERT INTO Students VALUES (5, 'Prashant', 'Sangli', 'C', 55.26)",  "INSERT INTO Students VALUES (6, 'Abhi', 'Pune', 'C', 55.84)"  };  for (String sql : insertData) {  stmt.executeUpdate(sql);  }  System.out.println("Data inserted successfully.");  // Delete record for Roll\_No 5  String deleteRecordSQL = "DELETE FROM Students WHERE Roll\_No = 5";  stmt.executeUpdate(deleteRecordSQL);  System.out.println("Record with Roll\_No 5 deleted successfully.");  // Update city from Sangli to Pune  String updateCitySQL = "UPDATE Students SET City = 'Pune' WHERE City = 'Sangli'";  stmt.executeUpdate(updateCitySQL);  System.out.println("City updated successfully.");  // Display names of students having marks greater than 60  String displayNamesSQL = "SELECT Name FROM Students WHERE Marks > 60";  ResultSet rs = stmt.executeQuery(displayNamesSQL);  System.out.println("Names of students with marks greater than 60:");  while (rs.next()) {  System.out.println(rs.getString("Name"));  }  // Display students according to their marks (Descending order)  String displayByMarksSQL = "SELECT \* FROM Students ORDER BY Marks DESC";  rs = stmt.executeQuery(displayByMarksSQL);  System.out.println("\nStudents sorted by marks (Descending order):");  while (rs.next()) {  System.out.println(rs.getInt("Roll\_No") + "\t" +  rs.getString("Name") + "\t" +  rs.getString("City") + "\t" +  rs.getString("Grade") + "\t" +  rs.getDouble("Marks"));  }  // Clean-up environment  rs.close();  stmt.close();  conn.close();  } catch (SQLException se) {  // Handle errors for JDBC  se.printStackTrace();  } catch (Exception e) {  // Handle errors for Class.forName  e.printStackTrace();  } finally {  // Finally block used to close resources  try {  if (stmt != null) stmt.close();  } catch (SQLException se2) {  } // nothing we can do  try {  if (conn != null) conn.close();  } catch (SQLException se) {  se.printStackTrace();  } // end finally try  } // end try  }  } |

Output –



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