```
Program 1:
import java.sql.Connection; import java.sql.DriverManager; import
java.sql.SQLException; import java.sql.Statement; public class StudentDatabase {
private static final String JDBC URL = "jdbc:mysql://localhost:3306/student database";
private static final String USERNAME = "your_username";    private static final String
PASSWORD = "your password"; public static void main(String[] args) {
   String createTableSQL = "CREATE TABLE students ("
        + "id INT AUTO INCREMENT PRIMARY KEY,"
        + "name VARCHAR(100),"
        + "age INT,"
        + "grade VARCHAR(10)"
        +")";
String insertDataSQL = "INSERT INTO students (name, age, grade) VALUES "
        + "('John Doe', 20, 'A'),"
        + "('Jane Smith', 21, 'B'),"
        + "('Mike Johnson', 22, 'C')";
try (Connection connection = DriverManager.getConnection(JDBC_URL, USERNAME,
PASSWORD);
                    Statement statement = connection.createStatement()) {
statement.execute(createTableSQL);
      System.out.println("Table created successfully."); statement.executeUpdate(insertDataSQL);
      System.out.println("Data inserted successfully.");
} catch (SQLException e) {
      e.printStackTrace();
    }
  }
}
Program 2:
import java.sql.*; public class StudentDatabase { static final String
JDBC_URL = "jdbc:mysql://localhost:3306/student_db"; static final String
```

```
USERNAME = "username"; static final String PASSWORD = "password";
public static void main(String[] args) {
    try (Connection connection = DriverManager.getConnection(JDBC_URL, USERNAME,
PASSWORD)) {
     createTable(connection); insertData(connection, "John
Doe", 25, "Computer Science"); updateData(connection,
"John Doe", 26); deleteData(connection, "John Doe");
                                                        }
catch (SQLException e) {
      e.printStackTrace();
    }
 }
private static void createTable(Connection connection) throws SQLException {
    String sql = "CREATE TABLE IF NOT EXISTS students (" +
           "id INT AUTO_INCREMENT PRIMARY KEY," +
           "name VARCHAR(255) NOT NULL," +
           "age INT NOT NULL," +
           "major VARCHAR(255) NOT NULL)"; try
(Statement statement = connection.createStatement()) {
statement.execute(sql);
    }
 }
private static void insertData(Connection connection, String name, int age, String major) throws
SQLException {
    String sql = "INSERT INTO students (name, age, major) VALUES (?, ?, ?)"; try
(PreparedStatement preparedStatement = connection.prepareStatement(sql)) {
preparedStatement.setString(1, name);
                                            preparedStatement.setInt(2, age);
preparedStatement.setString(3, major); preparedStatement.executeUpdate();
    }
 }
private static void updateData(Connection connection, String name, int newAge) throws
SQLException {
```

```
String sql = "UPDATE students SET age = ? WHERE name = ?"; try

(PreparedStatement preparedStatement = connection.prepareStatement(sql)) {

preparedStatement.setInt(1, newAge); preparedStatement.setString(2,

name); preparedStatement.executeUpdate();

}

private static void deleteData(Connection connection, String name) throws SQLException {

String sql = "DELETE FROM students WHERE name = ?"; try (PreparedStatement

preparedStatement = connection.prepareStatement(sql)) {

preparedStatement.setString(1, name); preparedStatement.executeUpdate();

}

}
```