

SQL AND JAVA CONNECTION ASSIGNMENT

JAVA CODING:

```
package sqlconnect;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

public class assignment {

    public static void main(String[] args) throws ClassNotFoundException, SQLException {
        InsertQuery();
        selectQuery();
    }

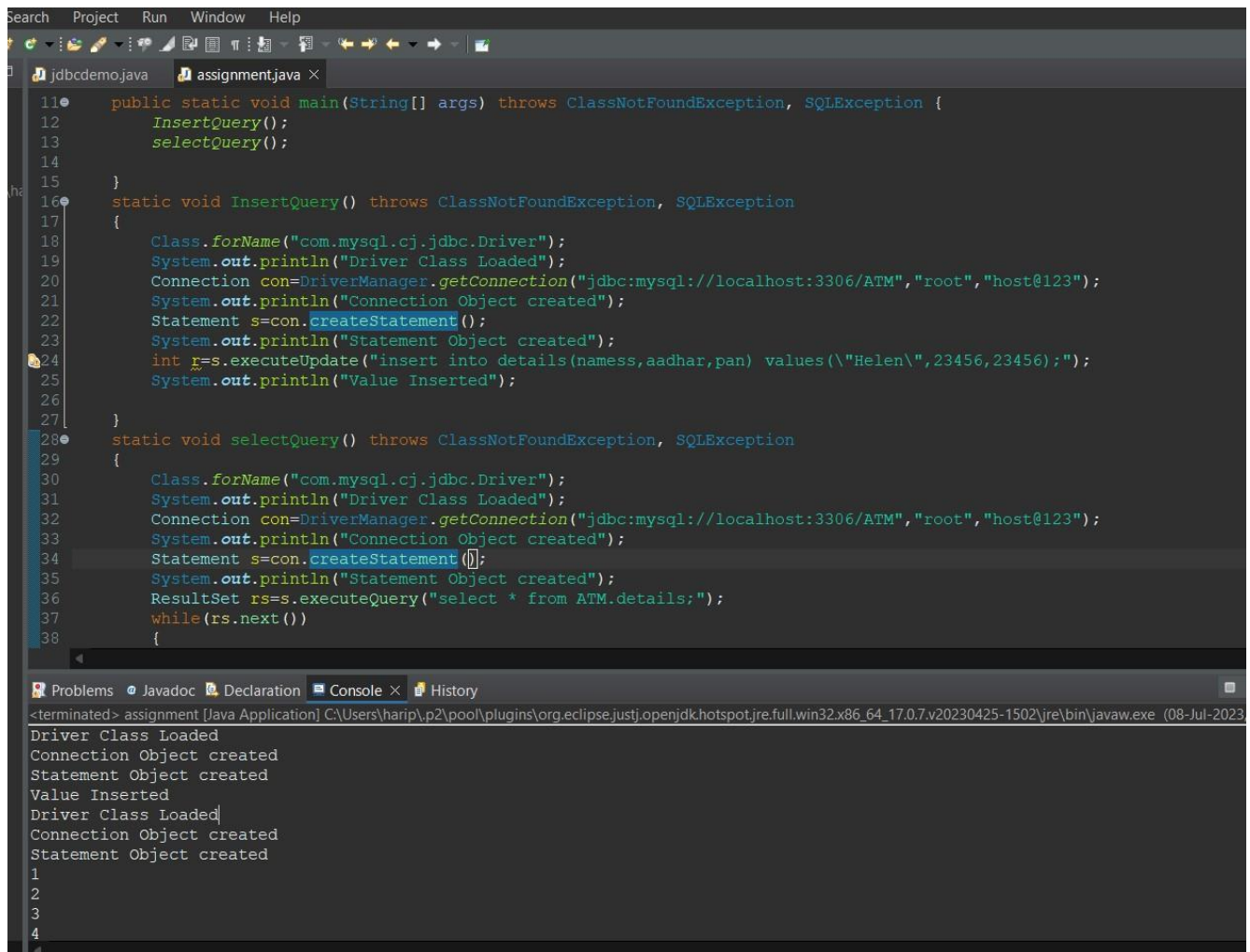
    static void InsertQuery() throws ClassNotFoundException, SQLException
    {
        Class.forName("com.mysql.cj.jdbc.Driver");
        System.out.println("Driver Class Loaded");
        Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/ATM","root","root");
        System.out.println("Connection Object created");
        Statement s=con.createStatement();
        System.out.println("Statement Object created");
        int r=s.executeUpdate("insert into details (name, aadhar, pan)
values(\"Helen\", 23456, 23456);");
        System.out.println("Value Inserted");
    }

    static void selectQuery() throws ClassNotFoundException, SQLException
    {
        Class.forName("com.mysql.cj.jdbc.Driver");
        System.out.println("Driver Class Loaded");
        Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/ATM","root","root ");
        System.out.println("Connection Object created");
        Statement s=con.createStatement();
        System.out.println("Statement Object created");
        ResultSet rs=s.executeQuery("select * from ATM.details;");
        while(rs.next())
        {
            System.out.println(rs.getString(1));
        }
    }
}}
```

OUTPUT:

```
Driver Class Loaded
Connection Object created
Statement Object created
Value Inserted
Driver Class Loaded
Connection Object created
Statement Object created
1
2
3
4
```

SCREENSHOTS:



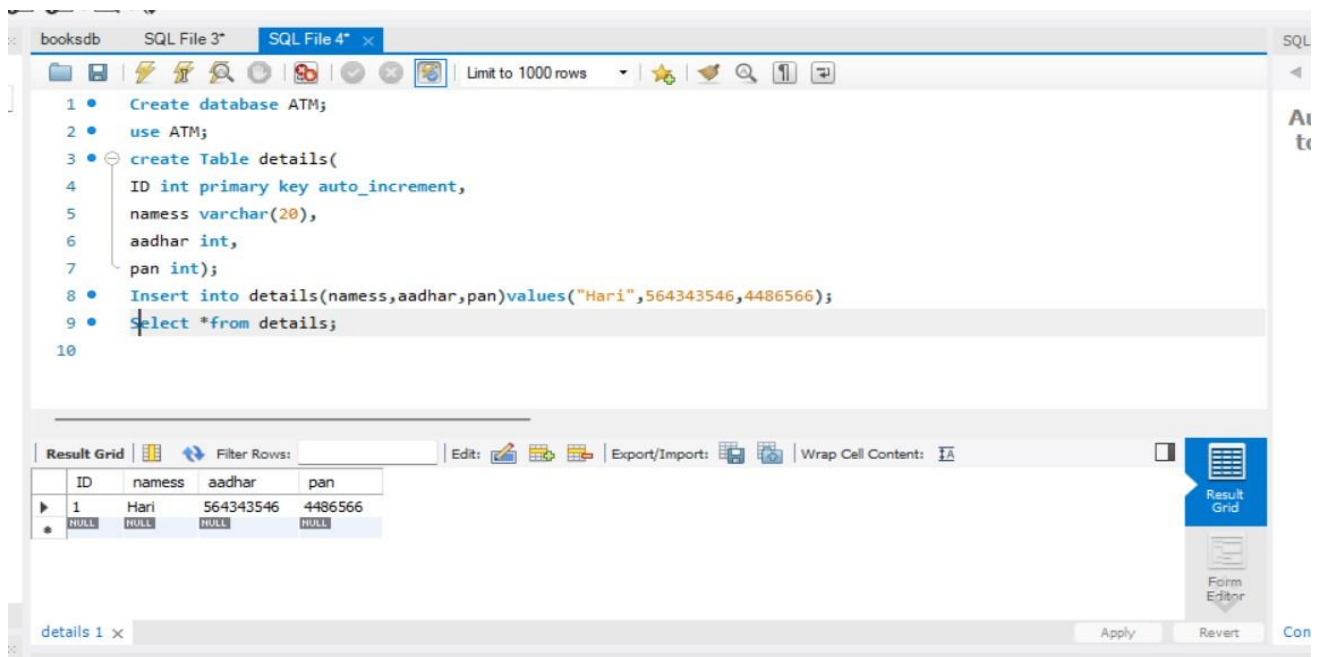
The screenshot shows an IDE with two tabs: `jdbcdemo.java` and `assignment.java`. The `assignment.java` tab is active, displaying the following Java code:

```
11 public static void main(String[] args) throws ClassNotFoundException, SQLException {
12     InsertQuery();
13     selectQuery();
14 }
15
16 static void InsertQuery() throws ClassNotFoundException, SQLException
17 {
18     Class.forName("com.mysql.cj.jdbc.Driver");
19     System.out.println("Driver Class Loaded");
20     Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/ATM","root","host@123");
21     System.out.println("Connection Object created");
22     Statement s=con.createStatement();
23     System.out.println("Statement Object created");
24     int x=s.executeUpdate("insert into details(nameess,aadhar,pan) values(\"Helen\",23456,23456);");
25     System.out.println("Value Inserted");
26 }
27
28 static void selectQuery() throws ClassNotFoundException, SQLException
29 {
30     Class.forName("com.mysql.cj.jdbc.Driver");
31     System.out.println("Driver Class Loaded");
32     Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/ATM","root","host@123");
33     System.out.println("Connection Object created");
34     Statement s=con.createStatement();
35     System.out.println("Statement Object created");
36     ResultSet rs=s.executeQuery("select * from ATM.details;");
37     while(rs.next())
38     {
```

The console output at the bottom shows the execution results:

```
<terminated> assignment [Java Application] C:\Users\harip\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe (08-Jul-2023)
Driver Class Loaded
Connection Object created
Statement Object created
Value Inserted
Driver Class Loaded
Connection Object created
Statement Object created
1
2
3
4
```

DATABASE BEFORE ADDING:



The screenshot shows a SQL IDE with a tab labeled `SQL File 4*`. The SQL editor contains the following commands:

```
1 Create database ATM;
2 use ATM;
3 create Table details(
4     ID int primary key auto_increment,
5     nameess varchar(20),
6     aadhar int,
7     pan int);
8 Insert into details(nameess,aadhar,pan)values("Hari",564343546,4486566);
9 Select *from details;
```

The `Result Grid` at the bottom displays the data returned by the `SELECT` query:

ID	nameess	aadhar	pan
1	Hari	564343546	4486566
NULL	NULL	NULL	NULL

The `details` table is also visible in the `Result Grid` tab at the bottom.

booksdb SQL File 3* SQL File 4* x

Limit to 1000 rows

```
1 • Create database ATM;
2 • use ATM;
3 • create Table details(
4   ID int primary key auto_increment,
5   name varchar(20),
6   aadhar int,
7   pan int);
8 • Insert into details(name,aadhar,pan)values("Hari",564343546,4486566);
9 • select *from details;
10
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: Form Editor

	ID	name	aadhar	pan
▶	1	Hari	564343546	4486566
	2	Helen	23456	23456
	3	Helen	23456	23456
	4	Helen	23456	23456
*	NULL	NULL	NULL	NULL

DATABASE AFTER ADDING JAVA CODE: