ASSIGNMENT-3
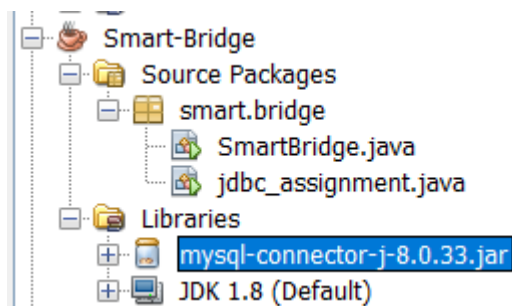
IMPLEMENT JDBC CONNECTIVITY USING JAVA

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20BCI0114

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Including the jar file:

CODE:

```java
package smart.bridge;

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

public class jdbc_assignment {
    public static void main(String[] args){
        try{
            // 1. Register the Driver
            Class.forName("com.mysql.jdbc.Driver");
            // 2. Connection
```

```java
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/assignment2"
,"root","Rahul4545");
        // 3. Statement
        Statement stmt=con.createStatement();
        // 4. Excecute Query
        ResultSet rs=stmt.executeQuery("select * from person");
        while(rs.next()){
            System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3));
        }
        // 5. Close the connection
        con.close();
    }
    catch(Exception e){
        System.out.println(e);
    }
  }
}
```

CODE SCREENSHOT:

```java
2    package smart.bridge;
3
4    import java.sql.Statement;
5    import java.sql.Connection;
6    import java.sql.DriverManager;
7    import java.sql.ResultSet;
8    import java.sql.SQLException;
9
10   public class jdbc_assignment {
11       public static void main(String[] args){
12           try{
13               // 1. Register the Driver
14               Class.forName("com.mysql.jdbc.Driver");
15               // 2. Connection
16               Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/assignment2","root","Rahul4545");
17               // 3. Statement
18               Statement stmt=con.createStatement();
19               // 4. Excecute Query
20               ResultSet rs=stmt.executeQuery("select * from person");
21               while(rs.next()){
22                   System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3));
23               }
24               // 5. Close the connection
25               con.close();
26           }
27           catch(Exception e){
28               System.out.println(e);
29           }
30       }
31   }
```

SQL statement output:

```
28
29 ●     select * from person;
30
```

Result Grid | Filter Rows:

id	fullname	salary
1	rahul	5000
2	ganesh	6000
3	ashish	5500
4	deepak	4000
NULL	NULL	NULL

Output of the jdbc code using java:

Output - Smart-Bridge (run) ×   jdbc_assignment.java ×

```
run:
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The ne
1 rahul 5000
2 ganesh 6000
3 ashish 5500
4 deepak 4000
BUILD SUCCESSFUL (total time: 1 second)
```
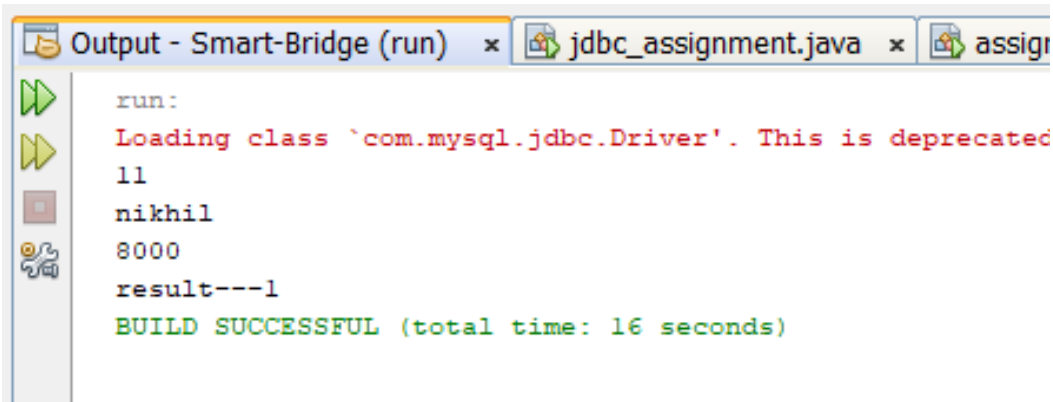
CODE: (Prepared Statement)

```java
package smart.bridge;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.Scanner;

public class assignment_prepared{
    public static void main(String args[]) {
        try {
            Scanner in=new Scanner(System.in);
            // 1.register the driver
            Class.forName("com.mysql.jdbc.Driver");
            // 2.connection
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/assignment2",
"root", "Rahul4545");
            // 3.Statement
            PreparedStatement stmt = conn.prepareStatement("insert into person
values(?,?,?)");
            int val1=in.nextInt();
            String val2=in.next();
            int val3=in.nextInt();
            stmt.setInt(1,val1);
            stmt.setString(2,val2);
            stmt.setInt(3,val3);
            // 4.Execute query
            int result = stmt.executeUpdate();
            System.out.println("result---"+result);
            // 5.close the conenction
            conn.close();
        }
        catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

CODE SCREENSHOT:

```java
package smart.bridge;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.Scanner;

public class assignment_prepared{
    public static void main(String args[]) {
        try {
            Scanner in=new Scanner(System.in);
            // 1.register the driver
            Class.forName("com.mysql.jdbc.Driver");
            // 2.connection
            Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/assignment2", "root", "Rahul4545");
            // 3.Statement
            PreparedStatement stmt = conn.prepareStatement("insert into person values(?,?,?)");
            int val1=in.nextInt();
            String val2=in.next();
            int val3=in.nextInt();
            stmt.setInt(1,val1);
            stmt.setString(2,val2);
            stmt.setInt(3,val3);
            // 4.Execute query
            int result = stmt.executeUpdate();
            System.out.println("result---"+result);
            // 5.close the conenction
            conn.close();
        }
        catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Output of the jdbc code using java:

```
Output - Smart-Bridge (run)  ×   jdbc_assignment.java  ×   assign

run:
Loading class `com.mysql.jdbc.Driver'. This is deprecated
11
nikhil
8000
result---1
BUILD SUCCESSFUL (total time: 16 seconds)
```

SQL statement output after updation:

	id	fullname	salary
▶	1	rahul	5000
	2	ganesh	6000
	3	ashish	5500
	4	deepak	4000
	6	dinesh	650
	11	nikhil	8000
*	NULL	NULL	NULL

Result Grid · Filter Rows: