

Database Connection selenium / java

Following classes are used for DB connection

DriverManager --get the db connection

Connection ---store the connection reference

Statement ----specify sql query and execute

ResultSet ---store the results retrived from DB

The below example connect to SQL database using the ODBC-DSN created in Control panel (ds1)

```
import java.sql.DriverManager;

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

public class dbprog
{
    public static void main(String[] args) throws Exception
    {

        Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
        Connection conn = DriverManager.getConnection("jdbc:odbc:ds1", "", "");
        Statement st=conn.createStatement();
        ResultSet rs1 = st.executeQuery("select * from titles");
        while (rs1.next())
        {
            System.out.println(rs1.getString(1)+"---- "+rs1.getInt(2) + "---- " + rs1.getString(3));
        }
        conn.close();
    }
}
```

MySQL

```
package FileHandling;

import java.sql.*;

public class MySQL
{
    public static void main(String[] args) throws Exception
    {
        Connection con;
        Statement stmt;
        String username = "admin";
        String password = "admin";
        String ActualUsername;
        String ActualPassword;

        Class.forName("com.mysql.jdbc.Driver");

        con = DriverManager.getConnection("jdbc:mysql://192.168.1.10:3306/qaplan","root","");
        stmt=con.createStatement();

        ResultSet rs=stmt.executeQuery("select user_nicename,user_email from users where
user_nicename= "+username+" ");

        if(rs !=null && rs.next());
        {
            ActualUsername=rs.getString("user_nicename");
            ActualPassword=rs.getString("user_email");
        }
    }
}
```

```

        if((username==ActualUsername)&& (password==ActualPassword))
        {
            System.out.println("Passed");
        }

        stmt.close();
        con.close();
    }
}

#####

```

SQL Server

```

package FileHandling;

import java.sql.*;

public class DataBase_SQL
{

    public static void main(String[] args) throws SQLException
    {
        // TODO Auto-generated method stub

        Connection connection = null;
        ResultSet objResultSet=null;
        PreparedStatement objPreStmnt=null;

        try
        {
            DriverManager.registerDriver(null/*new com.microsoft.jdbc.sqlserver.SQLServerDriver()*/);
            String url="jdbc:microsoft:sqlserver://psdbs01\\psdbs01A:1717;DatabaseName=ARROW_0_4_5_0";
            connection=DriverManager.getConnection(url,"arrow_sqa","arrow_sqa");

```

```
String strQuery = "select case_id,workitemid,userid from workbasket where case_id=? and  
workitemid=? and userid=?";
```

```
//Assigning the Query  
objPreStmnt = connection.prepareStatement(strQuery);  
objResultSet = objPreStmnt.executeQuery(); //Executing the Query  
while (objResultSet.next())  
{  
    System.out.println(" case_id:"+objResultSet.getString("case_id"));  
    System.out.println(" workitemid:"+objResultSet.getString("workitemid"));  
    System.out.println(" userid:"+objResultSet.getString("userid"));  
}  
  
}  
catch (Exception e)  
{  
    e.printStackTrace();  
}  
finally  
{  
    objResultSet.close();  
    objPreStmnt.close();  
    connection.close();  
}  
  
}  
}
```