PLSQL TO JAVA CONVERSION USING ISPIRER (SQLWAYSCOMMANDER)

Installation procedure and Running procedure

Currently Ispier(30 day trial) is providing four tools for converting oracle pl/sql code to java code.Out of four we are using SQLWaysCommander for custom conversion from pl/sql to java code.

**Step 1 :** Install the 64 bit version of Ispirer by using the below windows installer.

<http://wwww.ispirer.net/downloads/IspirerMnMTK2015-win64.msi>

**Step 2 :** After installation double click the sqlwayscommander application.Click enter license and give the path of the license file

**Step 3** : In the dialog box select source as **oracle** and provide the path of the input script sql file (provide single,multiple files or directories).In the target section select **java** and provide the output directory where converted java files are stored.

**Step 4** : After slecting the input script files and providing the output directory.press **F5** .View the converted java classes in the specified output path.

**Example 1:**

Sample script pl/sql file :

create or replace procedure addNumber(

num1 in int,

num2 in int)

as

begin

DBMS\_OUTPUT.PUT\_LINE('the result of two numbers is:' || (num1 + num2));

end;

/

**Output for the above pl/sql code :**

the result of two numbers is:7

**Converted java class file :**

import java.util.\*;

public class Addnumber

{

public static void spAddnumber(Integer num1,

Integer num2) throws Exception

{

try

{

System.out.println("the result of two numbers is:" + (num1.intValue() + num2.intValue()));

}

catch(Exception e)

{

e.printStackTrace();

throw e;

}

finally

{

}

}

}

**Output for the above java code :**

the result of two numbers is:7

**Example 2 :**

**Sample pl/sql script with insert commands.**

create or replace procedure insert\_student(

sid in student.id%TYPE,

sname in student.name%TYPE,

sdepartment in student.department%TYPE

)

as

begin

insert into student(id, name, department)

values (sid, sname, sdepartment);

end;

/

**Generated java class files :**

import java.sql.\*;

import java.util.\*;

public class Insert\_student

{

public static void spInsert\_student(String sid,

String sname,

String sdepartment) throws SQLException,Exception

{

Connection mconn = DriverManager.getConnection("jdbc:default:connection");

mconn.setAutoCommit(false);

Integer errorcode = -1;

String sqlstate = "";

try

{

try(PreparedStatement mstmt = mconn.prepareStatement("insert into student(id, name, department) "+

" values (?, ?, ?)");)

{

mstmt.setString(1,sid);

mstmt.setString(2,sname);

mstmt.setString(3,sdepartment);

mstmt.executeUpdate();

}

catch(SQLException se)

{

errorcode = se.getErrorCode();

sqlstate = se.getSQLState();

throw se;

}

if(!mconn.getAutoCommit())

mconn.commit();

}

catch(Exception e)

{

e.printStackTrace();

throw e;

}

finally

{

if(mconn != null)

{

mconn.close();

}

}

}

}

**Also it will generate the corresponding student class.**

**Note** : Database connection is not mandatory for working with sqlcommander

**Working with SQLWaysDMZwd:**

Step 1 : Double click the SQLWaysDMZwd Application. In the **welcome page** enter the license key.

Step 2 : In the scource page select XE (connection name)Iin User System DSN and **oracle in XE** for oracle DB Connection.

Step 3 : In the targer page slect target as **Oracle** alone.

Step 4 :In the objects page select the **pl/sql elements** that we are going to convert to java code.

Step 5 :In the specify DDL and other options select convert business logic to **java** and select yes in omit schema names in sql scripts.

Step 6: In the export directory select the **output path** where converted java classes will be stored.

Step 7 : Finally in the execution page select **start export** and view the output by clicking on **view output** icon.