

jdbc-rowset: What is RowSet in jdbc?

What is the purpose of RowSet? Please explain briefly.



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rowset x 1
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Answers

The instance of RowSet is the java bean component because it has properties and java bean notification mechanism. It is introduced since JDK 5.

It is the wrapper of ResultSet. It holds tabular data like ResultSet but it is easy and flexible to use.

The implementation classes of RowSet interface are as follows:

1. JdbcRowSet
2. CachedRowSet
3. WebRowSet
4. JoinRowSet
5. FilteredRowSet

Let's see how to create and execute RowSet.

```
JdbcRowSet rowSet = RowSetProvider.newFactory().createJdbcRowSet();  
rowSet.setUrl("jdbc:oracle:thin:@localhost:1521:xe");  
rowSet.setUsername("database username");  
rowSet.setPassword("database password");
```

```
rowSet.setCommand("select * from employee");  
rowSet.execute();
```

It is the new way to get the instance of JdbcRowSet since JDK 7.

The advantages of using RowSet are given below:

It is easy and flexible to use

It is Scrollable and Updatable by default

***** Example of JDBC RowSet *****

```
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.Statement;  
import javax.sql.RowSetEvent;  
import javax.sql.RowSetListener;  
import javax.sql.rowset.JdbcRowSet;  
import javax.sql.rowset.RowSetProvider;
```

```
public class RowSetExample {  
    public static void main(String[] args) throws Exception {  
        Class.forName("oracle.jdbc.driver.OracleDriver");
```

```

//Creating and Executing RowSet
JdbcRowSet rowSet = RowSetProvider.newFactory().createJdbcRowSet();
rowSet.setUrl("jdbc:oracle:thin:@localhost:1521:xe");
rowSet.setUsername("username");
rowSet.setPassword("password");

rowSet.setCommand("select * from employee");
rowSet.execute();

//Adding Listener and moving RowSet
rowSet.addRowSetListener(new MyListener());

while (rowSet.next()) {
// Generating cursor Moved event
System.out.println("Id: " + rowSet.getString(1));
System.out.println("Name: " + rowSet.getString(2));
System.out.println("Salary: " + rowSet.getString(3));
}

}
}

class MyListener implements RowSetListener {
public void cursorMoved(RowSetEvent event) {
System.out.println("Cursor Moved...");
}
public void rowChanged(RowSetEvent event) {
System.out.println("Cursor Changed...");
}
public void rowSetChanged(RowSetEvent event) {
System.out.println("RowSet changed...");
}
}
}

```

The output is as follows :

```

-----
Cursor Moved...
Id: 11
Name: XXXX
Salary: 70000
Cursor Moved...
Id: 22
Name: YYYY
Salary: 40000
Cursor Moved...
Id: 33
Name: ZZZZ
Salary: 50000
Cursor Moved...

```