

Dt : 9/11/2023

define 'RowSet'?

=>'RowSet' is an interface from javax.sql package and which is extended from java.sql.ResultSet interface.

java - represents JavaLib

javax - represents Extended-JavaLib

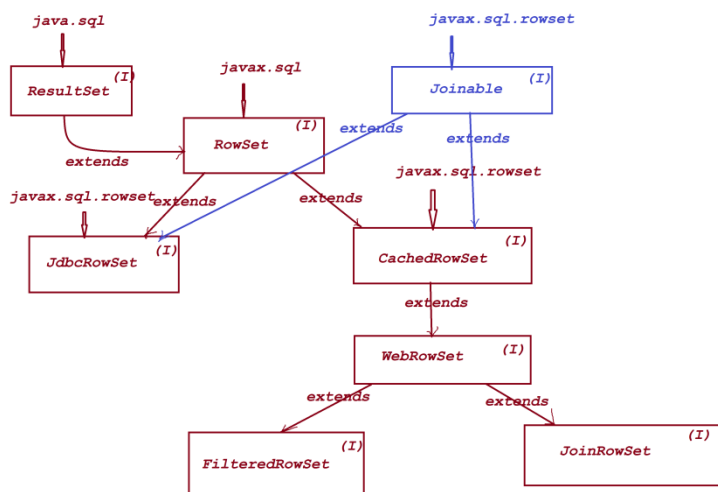
=>RowSet object will hold result-set data.

=>RowSet categorized into two types:

1.JdbcRowSet

2.CachedRowSet

Hierarchy of RowSet:



faq:

define 'RowSetFactory'?

=>'RowSetFactory' is an interface from javax.sql.rowset package and which provide the following method to create implementations for 'RowSet'.

1.createJdbcRowSet()

2.createCachedRowSet()

3.createWebRowSet()

4.createFilteredRowSet()

5.createJoinRowSet()

=>we use newFactory() method from 'RowSetProvider' class to create implementation object for 'RowSetFactory' interface.

syntax:

RowSetFactory rsf = RowSetProvider.newFactory();

1.JdbcRowSet:

=>JdbcRowSet will hold data retrieved from DB-product and connection to DB-product is not dis-connected automatically.

syntax:

JdbcRowSet jrs = rsf.createJdbcRowSet();

2.CachedRowSet:

=>CachedRowSet also hold the data retrieved from DB-product,but

Connection to DB-Product is closed automatically.

syntax:

CachedRowSet crs = rsf.createCachedRowSet();

Note:

(i)FilteredRowSet will hold data retrieved based on Condition,which means holds filtered data.

(ii)JoinRowSet will hold data by joining multiple RowSet-Objects

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Program : DBCon7.java

```
package test;
import java.util.*;
import javax.sql.rowset.*;
public class DBCon7 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        try(s){
        try {
            RowSetFactory rsf = RowSetProvider.newFactory();
            //RowSetFactory Object created
            System.out.println("****Choice****");
            System.out.println("\t1.JdbcRowSet"
                + "\n\t2.CachedRowSet");
            System.out.println("Enter the Choice:");
            int choice = s.nextInt();
            switch(choice)
            {
            case 1:
                JdbcRowSet jrs = rsf.createJdbcRowSet();
                //JdbcRowSet Object created
```

```

jrs.setUrl("jdbc:oracle:thin:@localhost:1521:xe");
jrs.setUsername("system");
jrs.setPassword("manager");
jrs.setCommand("select * from Product57");
jrs.execute();
while(jrs.next()) {

System.out.println(jrs.getString(1)+"\t"
                    +jrs.getString(2)+"\t"
                    +jrs.getFloat(3)+"\t"
                    +jrs.getInt(4));
}
jrs.close();
break;
case 2:
    CachedRowSet crs = rsf.createCachedRowSet();
    //CachedRowSet Object

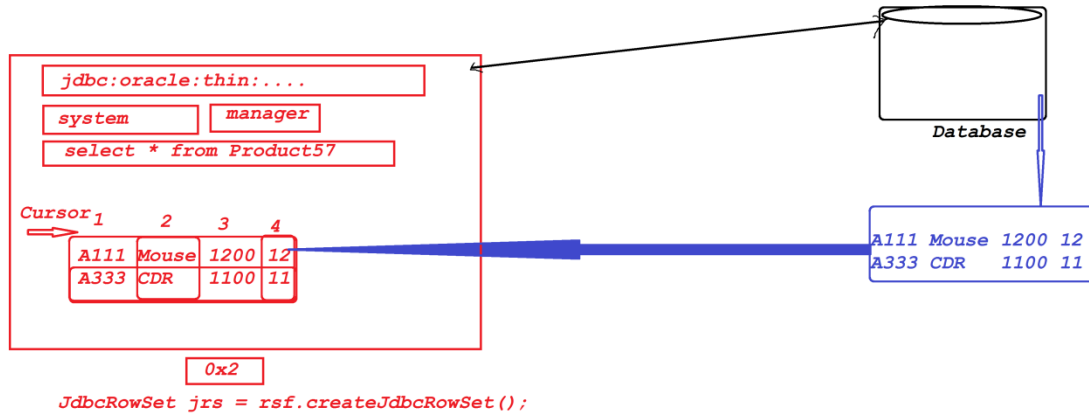
crs.setUrl("jdbc:oracle:thin:@localhost:1521:xe");
crs.setUsername("system");
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crs.setCommand("select * from Product57");
crs.execute();
while(crs.next()) {

System.out.println(crs.getString(1)+"\t"
                    +crs.getString(2)+"\t"
                    +crs.getFloat(3)+"\t"
                    +crs.getInt(4));
}
crs.close();
break;
default:
    System.out.println("Invalid Choice...");
} //end of switch
} catch (Exception e) {e.printStackTrace();}
} //end of try with resource
}
}

```

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