Dt : 10/3/2025

define "type"?

=>"type" specifies the direction of Cursor on ResultSet Object.

=>The following fields from ResultSet-Interface will specify the "type"

public static final int TYPE_FORWARD_ONLY;

public static final int TYPE_SCROLL_INSENSITIVE;

public static final int TYPE_SCROLL_SENSITIVE;

define "mode"?

=>"mode" specifies the action to be performed on ResultSet Object.

=>The following fields from ResultSet-Interface will specify the "mode":

public static final int CONCUR_READ_ONLY;

public static final int CONCUR_UPDATABLE;

Note:

=>we use the following some important methods to control cursor on ResultSet Object:

1.afterLast()

2.beforeFirst()

3.first()

4.last()

5.previous()

6.next()

7.absolute(int)

8.relative(int)

1.afterLast():

=>afterLast()-method will make the cursor point after the last row in ResultSet Object.

2.beforeFirst():

=>beforeFisrt()-method will make the cursor point before the first row in ResultSet Object.

3.first():

=>first()-method will make the cursor point to the first row of ResultSet Object.

4.last():

=>last()-method will make the cursor point to the last row of ResultSet Object.

5.previous():

=>previous()-method is used to move the cursor in backward direction.

6.next():

=>next()-method is used to move the cursor in forward direction.

7.absolute(int):

=>absolute(int)-method is used to move the cursor to specified row number.

8.relative(int):

=>relative(int)-method is used to take incre/decre value as parameter and move the cursor in forward or backward direction from current cursor position.

EX:

Program : DBCon8.java

```
package test;
import java.sql.*;
public class DBCon8 {
      public static void main(String[] args) {
         try {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection

      ("jdbc:oracle:thin:@localhost:1521:xe","system","tiger");
            System.out.println("*******Statement******");
            Statement stm = con.createStatement
                        (ResultSet.TYPE_SCROLL_INSENSITIVE,
                                    ResultSet.CONCUR_READ_ONLY);
            ResultSet rs1  = stm.executeQuery("select * from Customer72");
            System.out.println("------3rd row------");
            rs1.absolute(3);
            System.out.println(rs1.getLong(1)+"\t"
                        +rs1.getString(2)+"\t"
                        +rs1.getString(3)+"\t"
                        +rs1.getString(4)+"\t"
                        +rs1.getString(5));
            System.out.println("------relative(-2)------");
            rs1.relative(-2);
            System.out.println(rs1.getLong(1)+"\t"
                        +rs1.getString(2)+"\t"
                        +rs1.getString(3)+"\t"
                        +rs1.getString(4)+"\t"
                        +rs1.getString(5));
            System.out.println("------last row------");
            rs1.last();
            System.out.println(rs1.getLong(1)+"\t"
                        +rs1.getString(2)+"\t"
                        +rs1.getString(3)+"\t"
                        +rs1.getString(4)+"\t"
                        +rs1.getString(5));
            System.out.println("------first row------");
            rs1.first();
            System.out.println(rs1.getLong(1)+"\t"
                        +rs1.getString(2)+"\t"
                        +rs1.getString(3)+"\t"
                        +rs1.getString(4)+"\t"
                        +rs1.getString(5));
            System.out.println("*****PreparedStatement******");
            PreparedStatement ps = con.prepareStatement(
                        "select * from BankCustomer72",
                        ResultSet.TYPE_SCROLL_INSENSITIVE,
```

```
                        ResultSet.CONCUR_READ_ONLY);
            ResultSet rs2 = ps.executeQuery();
            System.out.println("------reverse-----");
            rs2.afterLast();
            while(rs2.previous()) {
                  System.out.println(rs2.getLong(1)+"\t"
                              +rs2.getString(2)+"\t"
                              +rs2.getString(3)+"\t"
                              +rs2.getString(4)+"\t"
                              +rs2.getString(5));
            }//end of loop
          }catch(Exception e) {
              e.printStackTrace();
          }
      }
}
```

o/p:

********Statement*******

------3rd row------

4545451234 HM4545451234 RTER Hyd r@gmail.com

------relative(-2)------

9898981234 HM9898981234 Alex Sec al@gmail.com

------last row------

4545451234 HM4545451234 RTER Hyd r@gmail.com

------first row------

9898981234 HM9898981234 Alex Sec al@gmail.com

******PreparedStatement*******

------reverse-----

321321 SB321321 Raj 10000 Savings

6123456 SB6123456 Alex 12000 Savings

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