Java ResultSetMetaData Interface

The metadata means data about data i.e. we can get further information from the data.

If you have to get metadata of a table like total number of column, column name, column type etc. , ResultSetMetaData interface is useful because it provides methods to get metadata from the ResultSet object.

Commonly used methods of ResultSetMetaData interface

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| **Method** | **Description** |
| public int getColumnCount()throws SQLException | it returns the total number of columns in the ResultSet object. |
| public String getColumnName(int index)throws SQLException | it returns the column name of the specified column index. |
| public String getColumnTypeName(int index)throws SQLException | it returns the column type name for the specified index. |
| public String getTableName(int index)throws SQLException | it returns the table name for the specified column index. |

How to get the object of ResultSetMetaData:

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| The getMetaData() method of ResultSet interface returns the object of ResultSetMetaData. Syntax: |

1. **public** ResultSetMetaData getMetaData()**throws** SQLException

Example of ResultSetMetaData interface :

1. **import** java.sql.\*;
2. **class** Rsmd{
3. **public** **static** **void** main(String args[]){
4. **try**{
5. Class.forName("oracle.jdbc.driver.OracleDriver");
6. Connection con=DriverManager.getConnection(
7. "jdbc:oracle:thin:@localhost:1521:xe","system","oracle");
9. PreparedStatement ps=con.prepareStatement("select \* from emp");
10. ResultSet rs=ps.executeQuery();
11. ResultSetMetaData rsmd=rs.getMetaData();
13. System.out.println("Total columns: "+rsmd.getColumnCount());
14. System.out.println("Column Name of 1st column: "+rsmd.getColumnName(1));
15. System.out.println("Column Type Name of 1st column: "+rsmd.getColumnTypeName(1));
17. con.close();
18. }**catch**(Exception e){ System.out.println(e);}
19. }
20. }

Output:Total columns: 2

Column Name of 1st column: ID

Column Type Name of 1st column: NUMBER