**8. ResultSet Metadata**

1. **What is ResultSetMetaData?**

* ResultSetMetaData is an interface in JDBC that provides metadata about the structure of a ResultSet object. While the ResultSet contains the actual data, ResultSetMetaData gives detailed information about the columns in the result set, such as the number of columns, column names, data types, and more.

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| Java ResultSet getMetaData() method with example |

1. **Importance of ResultSet Metadata in analyzing the structure of query results**

* ResultSetMetaData in JDBC provides detailed information about the structure of the query results, such as the number of columns, column names, data types, nullability, and display size. It helps in dynamically analyzing and processing the results without hardcoding column names or types.

1. **Methods in ResultSetMetaData (getColumnCount, getColumnName, getColumnType)**
2. **getColumnCount()**

Returns number of columns in query result.

**Eg:-** int columnCount = rsmd.getColumnCount(); System.out.println("Number of columns: " + columnCount);

1. **getColumnName(int column)**

Returns name of ith column.

**Eg**:- String columnName = rsmd.getColumnName(1); System.out.println("Column 1 name: " + columnName);

1. **getColumnType(int column)**

Returnsname of type of ith column.

**Eg:-** int columnType = rsmd.getColumnType(1); System.out.println("Column 1 type: " + columnType);

1. **getPrecision(int column)**

Return total digit in ith column

1. **getScale(int column)**

Returns decimal places in ith column