SQream JDBC Connector

SQream Technologies

Version 2.9.0

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The SQream JDBC Connector - Overview

- This guide describes the implementation of the SQream JDBC connector and is designed for SQream DB administrators and developers.
- The code sample shows how to initialize a connection, insert data to a table and run SQL queries (statements).
- SQream connector protocol version: 7

API Reference

See the JAVA 8 JDBC reference

```
https://docs.oracle.com/javase/8/docs/api/java/sql/package-
summary.html
```

Installation Instructions

Place the JAR file in the CLASSPATH. You will need the following JAR file:

```
SqreamJDBC.jar
```

Code Samples

Connecting to sqream, creating a table with some data and retrieveing the data

Example

```
import  java.sql.Connection;
import  java.sql.DatabaseMetaData;
import  java.sql.DriverManager;
import  java.sql.Statement;
import  java.sql.ResultSet;

import  java.io.IOException;
import  java.security.KeyManagementException;
import  java.security.NoSuchAlgorithmException;
import  java.sql.SQLException;


public  class  SampleTest  {
```

```
    // Replace with your respective URL
    static final String url =
"jdbc:Sqream://127.0.0.1:5000/master;user=sqream;password=sqream;se
rvice=service_name;cluster=false;ssl=false";

    Connection conn = null;
    Statement stmt = null;
    ResultSet rs = null;
    DatabaseMetaData dbmeta = null;

    int res = 0;

    public void testJDBC() throws SQLException, IOException {


        conn = DriverManager.getConnection
(url,"sqream","sqream");

        // Create a table
        String sql = "create or replace table test (x int)";
        stmt = conn.createStatement();
        stmt.execute(sql);
        stmt.close();

        // Insert some valuess
        sql = "insert into test values (5),(6)";
        stmt = conn.createStatement();
        stmt.execute(sql);
        stmt.close();

        // Retrieve
        sql = "select * from test";
        stmt = conn.createStatement();
        rs = stmt.executeQuery(sql);
        while(rs.next()) {
            res = rs.getInt(1);
            System.out.println(res);
        }
        rs.close();
        stmt.close();

        // Get table metadata
        dbmeta = conn.getMetaData();
        rs = dbmeta.getTables("master", "public", "test" ,new
String[] {"TABLE"} );
        while (rs.next()) {

            ResultSet rs2 = dbmeta.getColumns(null, null,
"test", null);
            while (rs2.next()) {
```

```
                System.out.println(rs2.getString(1));
            }
            rs2.close();
        }
        rs.close();
        conn.close();
    }


    public static void main(String[] args) throws
SQLException, KeyManagementException, NoSuchAlgorithmException,
IOException, ClassNotFoundException{

        // Load JDBC driver - not needed with newer version
        Class.forName("com.sqream.jdbc.SQDriver");

        SampleTest test = new SampleTest();
        test.testJDBC();
    }
}
```