

SQream Connector JDBC 2.9.0

SQream Technologies

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Table of Contents

| | |
|---|---|
| The SQream JDBC Connector - Overview | 1 |
| 1. API Reference | 1 |
| 2. Installation Instructions | 1 |
| 3. Code Samples | 1 |
| 3.1. Connecting to sqream, creating a table with some data and retrieveing the data | 1 |
| Copyright | 3 |

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: 6

1. API Reference

See the JAVA 8 JDBC reference

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

2. Installation Instructions

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

SqreamJDBC.jar

3. Code Samples

3.1. 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;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 values
    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();
    }
}
```

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