



# SQream JDBC Connector

SQream Technologies

Version 2.9.0

**Copyright © 2010-2019. All rights reserved.**

This document is provided for information purposes only and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchant- ability or fitness for a particular purpose.

We specifically disclaim any liability with respect to this document and no contractual obligations are formed either directly or indirectly by this document.

This document may not be reproduced in any form, for any purpose, without our prior written permission.

# Table of Contents

---

<b>Table of Contents</b> .....	<b>3</b>
<b>SQream Connector JDBC</b> .....	<b>4</b>
The SQream JDBC Connector - Overview .....	4
API Reference .....	4
Installation Instructions .....	4
Code Samples .....	4
Connecting to sqream, creating a table with some data and retrieving the data .....	4

# SQream Connector JDBC

Version 2.9.0

## 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 retrieving 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 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();
}
}
```