



# SQream JDBC Connector

SQream Technologies

Version 2.9.0

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# SQream Connector JDBC

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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 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();
}
}
```