

大作业：让使用大数据计算集群更加便捷

根据前面课程内容，参照实操手册，开发简单版Spark SQL查询分析器。

要求：

- 1、可以配置Spark SQL连接信息；
- 2、列出当前连接下的库、表、字段，以方便编写SQL脚本；
- 3、提供SQL编辑框，方便编写SQL和提交查询任务；
- 4、以列表的形式，展示查询结果；
- 5、不限于 CS、BS架构，以及开发语言；
- 6、提交设计说明书、使用说明书(要有截图)、完整源代码；

参考，但不限

The screenshot displays a web-based interface for a Spark SQL query engine. On the left, a sidebar labeled '元素区' (Element Area) shows a tree view of databases and tables. The main area is divided into a top section for SQL editing and a bottom section for results. The SQL editor contains the query: `SELECT * FROM t_rk_jbxx limit 10`. Below the editor, a table of results is displayed, with columns including `sfzhm`, `fqsfbzhm`, `mqsfzhm`, `xm`, `zym`, `xb`, `zxbh`, `cyhm`, and `csrq`. The results table is labeled '结果区' (Result Area). The interface also includes a 'Message' tab and a 'Result 1' tab.

sfzhm	fqsfbzhm	mqsfzhm	xm	zym	xb	zxbh	cyhm	csrq
410825197904222412	410825194912102418	410825194808102415	肖景平	(NULL)	1	15945548172	15930738048	19790422
542625200511298212	542625197403248212	542625198412128213	吕锦烟	(NULL)	2	18950068702	13122313647	20051129
532123200806251513	532523198804131513	532523197511101515	陆昆锐	(NULL)	1	15936789289	13678932855	2008062
430502199506092912	430502196506032918	430502196312042912	范彬睿	(NULL)	1	18915132009	15899340033	1995060
11012197410083027	120112194811123012	120112194111123012	蔡彬睿	(NULL)	2	15825204287	18992053376	19741008
140826199504148528	140826197301218518	140826197511123012	蔡彬睿	(NULL)	2	13645958171	15882138021	19950414
210104198109049414	210104195912089411	210104195711123012	蔡彬睿	(NULL)	1	13151072767	13693679823	19810904
590721199803235916	530721197805125916	530721196711123012	蔡彬睿	(NULL)	1	18952025651	18940205720	1998032
320122201402257818	320922198505227818	320922198411267814	蔡彬睿	(NULL)	2	13630038020	13158359139	2014022
210306197406021726	230306194703011714	230306194210161712	尹忆之	(NULL)	2	15815051419	15950464538	19740602