

题目 5 利用RocketMQ-streams实现分数实时统计

数据源：

```
1 {"name":"张三","class":"3班","subject":"数学","score":90}  
2 {"name":"张三","class":"3班","subject":"历史","score":81}  
3 {"name":"张三","class":"3班","subject":"英语","score":91}  
4 {"name":"张三","class":"3班","subject":"语文","score":70}  
5 {"name":"张三","class":"3班","subject":"政治","score":84}  
6 {"name":"张三","class":"3班","subject":"地理","score":99}  
7 {"name":"李四","class":"3班","subject":"数学","score":76}  
8 {"name":"李四","class":"3班","subject":"历史","score":83}  
9 {"name":"李四","class":"3班","subject":"英语","score":82}  
10 {"name":"李四","class":"3班","subject":"语文","score":92}  
11 {"name":"李四","class":"3班","subject":"政治","score":97}  
12 {"name":"李四","class":"3班","subject":"地理","score":89}  
13 {"name":"王五","class":"3班","subject":"数学","score":86}  
14 {"name":"王五","class":"3班","subject":"历史","score":88}  
15 {"name":"王五","class":"3班","subject":"英语","score":86}  
16 {"name":"王五","class":"3班","subject":"语文","score":93}  
17 {"name":"王五","class":"3班","subject":"政治","score":99}  
18 {"name":"王五","class":"3班","subject":"地理","score":88}
```

代码：

```

1 import org.apache.rocketmq.streams.client.StreamBuilder;
2 import org.apache.rocketmq.streams.client.source.DataStreamSource;
3 import org.json.JSONObject;
4
5 public class FileSourceExample {
6     public static void main(String[] args) {
7         DataStreamSource source = StreamBuilder.dataStream("namespace", "pipeline");
8
9         source.fromFile("data.txt", false)
10             .map(message -> message)
11             .toPrint(1)
12             .start();
13
14         source.fromFile("studentScores.txt", true)
15             .map(message -> message)
16             .filter(message -> ((JSONObject) message).getInt("score") > 90)
17             .selectFields("name","subject")
18             .toFile("./rocketmq-streams-examples/src/main/resources/results.txt")
19             .start();
20     }
21 }

```

结果:

```

1 {"name":"张三","class":"3班","subject":"数学","score":90}
2 {"name":"张三","class":"3班","subject":"英语","score":91}
3 {"name":"张三","class":"3班","subject":"地理","score":99}
4 {"name":"李四","class":"3班","subject":"语文","score":92}
5 {"name":"李四","class":"3班","subject":"政治","score":97}
6 {"name":"王五","class":"3班","subject":"语文","score":93}
7 {"name":"王五","class":"3班","subject":"政治","score":99}

```