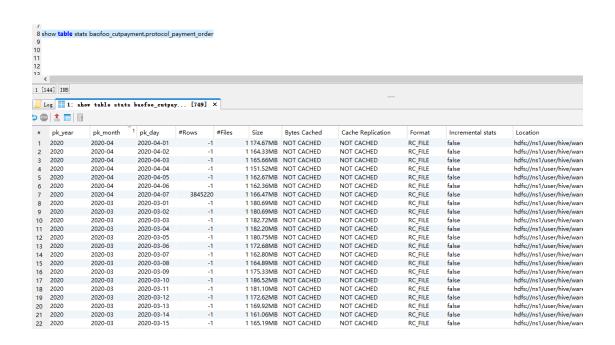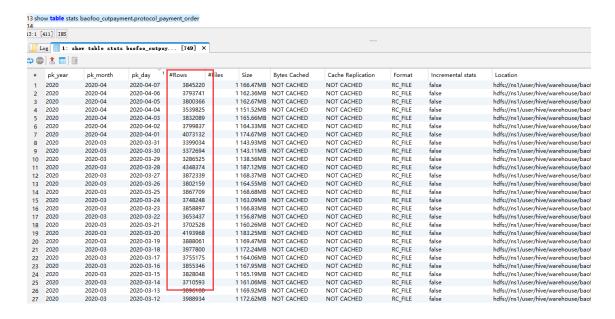1. 分区不能超过1w多

2. 要执行compute stats xxx 表

3. join时，把小表写前面，会把小表广播到其他节点。

4. 选择parquert 格式存储。

执行 compute stats baofoo_cutpayment.protocol_payment_order 之后

「COMPUTE STATS」的作用就是得出Impala原先不知道的值（-1）　　并让 Impala 基于每一个表的大小、每一个列不同值的个数、等等信息自动的优化查询

5. 用 explain , summary 分析

```
[cdh81-39:21000] > SUMMARY
                 > ;
+------------------+--------+-----------+-----------+--------+-----------+-----------+---------------+------------------------------------------------+
| Operator         | #Hosts | Avg Time  | Max Time  | #Rows  | Est. #Rows| Peak Mem  | Est. Peak Mem | Detail                                         |
+------------------+--------+-----------+-----------+--------+-----------+-----------+---------------+------------------------------------------------+
| 11:EXCHANGE      | 1      | 8.47s     | 8.47s     | 9      | 324       | 0 B       | 0 B           | UNPARTITIONED                                  |
| 06:HASH JOIN     | 3      | 19.75ms   | 37.79ms   | 9      | 324       | 10.10 MB  | 1.94 MB       | LEFT OUTER JOIN, BROADCAST                     |
| |--10:EXCHANGE   | 3      | 10.82us   | 11.83us   | 274    | 274       | 0 B       | 0 B           | BROADCAST                                      |
| |   03:SCAN HDFS | 1      | 55.32ms   | 55.32ms   | 274    | 274       | 144.00 KB | 32.00 MB      | baofoo_cutpayment.cutpayment_error_code c      |
| 05:HASH JOIN     | 3      | 112.59ms  | 160.56ms  | 9      | 324       | 10.13 MB  | 1.94 MB       | RIGHT OUTER JOIN, PARTITIONED                  |
| |--04:HASH JOIN  | 3      | 49.96ms   | 58.90ms   | 9      | 324       | 2.16 MB   | 1.94 MB       | RIGHT OUTER JOIN, PARTITIONED                  |
| |  |--08:EXCHANGE| 3      | 2.51s     | 2.96s     | 9      | 324       | 0 B       | 0 B           | HASH(bo.business_no)                           |
| |  |   00:SCAN HDFS| 2    | 1.96s     | 3.20s     | 9      | 324       | 42.62 MB  | 176.00 MB     | baofoo_cutpayment.protocol_payment_order bo    |
| |  07:EXCHANGE   | 3      | 1.45s     | 1.48s     | 4.22M  | 1.76M     | 0 B       | 0 B           | HASH(be.business_no)                           |
| |   01:SCAN HDFS | 3      | 394.65ms  | 591.18ms  | 4.22M  | 1.76M     | 58.12 MB  | 176.00 MB     | baofoo_cutpayment.protocol_payment_business_orde|
| 09:EXCHANGE      | 3      | 2.45s     | 2.46s     | 4.22M  | 4.22M     | 0 B       | 0 B           | HASH(pp.business_no)                           |
| 02:SCAN HDFS     | 4      | 1.66s     | 3.32s     | 4.22M  | 4.22M     | 66.52 MB  | 176.00 MB     | baofoo_cutpayment.protocol_payment_business_orde|
+------------------+--------+-----------+-----------+--------+-----------+-----------+---------------+------------------------------------------------+
[cdh81-39:21000] >
```