1、 HBase 创建一张表 Wuxia

```
hbase(main):007:0*
hbase(main):008:0* create 'Wuxia','count'
0 row(s) in 2.3940 seconds
=> Hbase::Table - Wuxia
hbase(main):009:0>
```

2 scan 'Wuxia'

```
🔊 🗐 📵 hadoop@dmyan-Ubuntu: /usr/local/hbase
hbase(main):002:0> scan 'Wuxia'
ROW
                          COLUMN+CELL
                          column=count:freqs, timestamp=1510128897908, value=1.00 column=count:freqs, timestamp=1510128897924, value=2.33
 0
 1
 1238\xE5\xB9\xB4
                          column=count:freqs, timestamp=1510128897927, value=1.00
                          column=count:freqs, timestamp=1510128897931, value=1.00
 1240\xE5\xB9\xB4
                          column=count:freqs, timestamp=1510128897935, value=1.00
column=count:freqs, timestamp=1510128897939, value=1.00
 1368
 1480\xE5\xB9\xB4
 1911\xE4\xB8\x80
                          column=count:freqs, timestamp=1510128897943, value=1.00
 1975\xE5\xB9\xB4
                          column=count:freqs, timestamp=1510128897946, value=1.00
                          column=count:freqs, timestamp=1510128897951, value=1.67
 240
                          column=count:freqs, timestamp=1510128897955, value=1.00
 3
                          column=count:freqs, timestamp=1510128897958, value=1.00
                          column=count:freqs, timestamp=1510128897962, value=1.00
column=count:freqs, timestamp=1510128897965, value=1.00
 37
 4
                          column=count:freqs, timestamp=1510128897970, value=1.00
 5\xE6\x9C\x88
                          column=count:freqs, timestamp=1510128897974,
                                                                               value=1.00
                          column=count:freqs, timestamp=1510128897979, value=1.00 column=count:freqs, timestamp=1510128897983, value=1.00
 б
 BertrandRussell
                          column=count:freqs, timestamp=1510128897986, value=1.00
                          column=count:freqs, timestamp=1510128897991, value=1.00
column=count:freqs, timestamp=1510128897994, value=1.00
 Boleslaw
 Brunei
                          column=count:freqs, timestamp=1510128897998, value=4.27
 C
  🛑 📵 hadoop@dmyan-Ubuntu: /usr/local/hbase
 \x8B
 \xE9\xBE\x9F\xE7\x94 column=count:freqs, timestamp=1510232233134, value=2.33
 \xB2
 xE9\xBE\x9F\xE7\xBA column=count:freqs, timestamp=1510232233135, value=3.00
 \xB9
 xE9\xBE\x9F\xE7\xBC column=count:freqs, timestamp=151023<u>2233136, value=1</u>.44
 \xA9
 \xE9\xBE\x9F\xE8\x82 column=count:freqs, timestamp=1510232233137, value=1.33
 \x89
 xE9\xBE\x9F\xE8\x83 column=count:freqs, timestamp=1510232233138, value=2.50
 \x8C
 \xE9\xBE\x9F\xE8\xA3 column=count:freqs, timestamp=1510232233139, value=1.29
 \x82
 xE9\xBE\x9F\xE9\xB3 column=count:freqs, timestamp=1510232233140, value=2.00
 \x96
 \xE9\xBE\x9F\xE9\xB9 column=count:freqs, timestamp=1510232233141, value=1.00
 \xA4\xE9\x81\x90\xE9
 \xBE\x84
 \xEF\xA8\x8C
                          column=count:freqs, timestamp=1510232233142, value=5.00
                          column=count:freqs, timestamp=1510232233143, value=1.50
column=count:freqs, timestamp=1510232233144, value=3.33
 \xEF\xBF\xA1
 \xEF\xBF\xA5
134882 row(s) in 74.8350 seconds
hbase(main):011:0>
```

3、 Hive 创建 Wuxia 数据表

identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.

word string count double

Time taken: 4.502 seconds, Fetched: 2 row(s)

hive>

4、 导入数据到 Hive

🔞 🖨 🗊 hadoop@dmyan-Ubuntu: /usr/local/hadoop

1.X releases.

hive> load data local inpath "/home/hadoop/codes/mapreduce_project/mapreducerank/ /wuxia.txt" into table Wuxia;

Thu Nov 09 21:15:54 CST 2017 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.

Thu Nov 09 21:15:55 CST 2017 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.

Thu Nov 09 21:15:55 CST 2017 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.

5、 查询出现次数大干 300 的词语

```
a hadoop@dmyan-Ubuntu: /usr/local/hadoop
hive> select * from Wuxia where count>300;
ok
—
                       753.2
                      448.27
327.49
364.0
一丁丁万万不东两中之乌乐也了人什他他令仪伍但是声典玲成震,方利  老圣   么 们狐琳元 24    山 龙   大
                       586.5
                     586.5
962.5
333.0
494.76
544.0
1471.89
541.02
391.53
302.0
889.5
1345.75
1574.48
                      340.51
332.74
2614.89
                      568.61
1905.0
729.0
934.0
                      934.0
597.12
378.0
304.0
2517.53
302.76
345.6
383.96
383.96
但余余你你佶俞倜凌凤刀剑-沧鱼 们 云梧儿 海同 凤
                      415.67
322.0
                       368.0
381.03
                      381.03
406.0
377.21
892.6
405.53
343.84
532.95
338.07
,十南南却去又只叶叶向周周周周和一宫江 开长问仲伯绮芷郎 超青天英通 若
                      975.0
724.67
516.0
405.0
                       412.67
                       556.0
                      413.5
505.75
```

6、 查询 100 个出现次数最多的词

```
🕒 🗊 hadoop@dmyan-Ubuntu: /usr/local/hadoop
Time taken: 3.956 seconds, Fetched: 174 row(s)
hive> select * from Wuxia sort by count desc limit 100;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versi
ons. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X rel
 eases.
 Query ID = hadoop_20171109211903_6bed1261-b930-41dc-a333-9865288ad62d
Total jobs = 2
 Launching Job 1 out of 2
Number of reduce tasks not specified. Estimated from input data size: 1
 In order to change the average load for a reducer (in bytes):
    set hive.exec.reducers.bytes.per.reducer=<number>
 In order to limit the maximum number of reducers:
set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
    set mapreduce.job.reduces=<number>
Starting Job = job_1510233155920_0001, Tracking URL = http://dmyan-Ubuntu:8088/proxy/app lication_1510233155920_0001/
Kill Command = /usr/local/hadoop/bin/hadoop job -kill job_1510233155920_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2017-11-09 21:19:34,797 Stage-1 map = 0%, reduce = 0%
2017-11-09 21:19:49,028 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 12.97 sec 2017-11-09 21:20:02,458 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 21.0 sec MapReduce Total cumulative CPU time: 21 seconds 0 msec Ended Job = job_1510233155920_0001
Launching Job 2 out of 2
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
    set hive.exec.reducers.bytes.per.reducer=<number>
    set hive.exec.reducers.max=<number>
    set hive.exec.reducers.bytes.per.reducer=<number>
 In order to limit the maximum number of reducers:
    set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:

set mapreduce.job.reduces=<number>
Starting Job = job_1510233155920_0002, Tracking URL = http://dmyan-Ubuntu:8088/proxy/app lication_1510233155920_0002
Kill Command = /usr/local/hadoop/bin/hadoop job -kill job_1510233155920_0002

Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1

2017-11-09 21:20:32,585 Stage-2 map = 0%, reduce = 0%

2017-11-09 21:20:45,233 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 7.8 sec

2017-11-09 21:20:58,616 Stage-2 map = 100%, reduce = 100%, Cumulative CPU 18.31 sec

MapReduce Total cumulative CPU time: 18 seconds 310 msec

Ended Job = job_1510233155920_0002
 MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 21.0 sec HDFS Read: 1835318 HDFS Wr
 ite: 3346 SUCCESS
 Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 18.31 sec HDFS Read: 8798 HDFS Writ
 e: 3329 SUCCESS
 Total MapReduce CPU Time Spent: 39 seconds 310 msec
```

```
hadoop@dmyan-Ubuntu: /usr/local/hadoop
        646.5
        629.8
         439.0
Time taken: 118.657 seconds, Fetched: 100 row(s) hive>
```

7、 输出到本文文件的内容附在最后

8、 实验体会

通过本次实验学会了安装和使用 Hbase,Hive,在 MapReduce 过程中使用 Hbase 保存数据,对 MapReduce 的过程更加清晰了,对以后的学习和使用 MapReduce 大有益处。

部分输出内容

诏命 1.33

诏安 2.00

诏旨 3.11

诏曰 1.17

诏示 1.00

诏谕 1.33

译 2.83

译为 2.33

译传 1.00

译作 1.50

译出 1.71

译名 1.50

译员 3.00

译官 1.00

译意 1.00

译成 2.05

译文 1.75

译本 1.17

译注 1.00

译着 1.00

译笔 1.00

译经 1.00

译者 1.00

译述 1.00

译错 1.00

译音 1.00

诒 1.00

诓 2.33

诓骗 1.33

诔 1.33

试 12.44

试一下 1.43

试一试 2.96

试了 3.79

试了试 1.24

试以 1.00

试作 1.00

试做 1.00

试出 2.62

试出来 1.15

试制 1.00

试加 2.00

试卷 1.25

试吃 1.29

试听 1.00

试图 1.40

试场 1.00

试射 1.25

试得 2.00

试想 3.10

试成 1.00

试戴 1.00

试手 1.27

试探 4.96

试探性 1.42

试来试去 1.00