1. SQOOP

Apache Sqoop — это инструмент, предназначенный для передачи данных между Hadoop и реляционными базами данных или мэйнфреймами.

Запрашиваю список БД в PosrgeSQL, чтобы в дальнейшем выполнить импорт БД PSQL в hive

```
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ sqoop list-databases --connect jdbc:postgresql://10.0.0.7/lesson5 --username exporter --password exporter_pass Warning: /usr/hdp/3.1.4.0-315/accumulo does not exist! Accumulo imports will fail.
Please set $AccuMulo. bMME to the root of your Accumulo installation.
SLF41: Class path contains multiple SLF4D bindings.
SLF41: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hdoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF41: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/phoenix/phoenix-5.0.0.3.1.4.0-315-server.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF41: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF41: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF42: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF43: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hive/li
```

Запрашиваю список таблиц

```
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$'sqoop list-tables --connect jdbc:postgresql://10.0.0.7/lesson5 --username exporter --password exporter_pass Warning: /usr/hdp/3.1.4.0-315/accumulo des not exist! Accumulo imports will fail.

Please set $ACCUMULO_HOWE to the root of your Accumulo installation.

SLF41: Class path contains multiple SLF41 bindings.

SLF41: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF41: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hhoenix-5.0.0.3.1.4.0-315-server.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF41: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF41: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hdp/
```

Выполняю команду импорта с помощью sqoop из БД PSQL в Hive использую параметр -m 1

```
le Joute Format Counters

Bytes Read-B

10 Output Format Counters

11 Output Format Counters

12 Output Format Counters

13 Output Format Counters

15 Output Format Fo
File Ou
          In 16:51:59 INFO hive.HiveImport: INFO : Compiling command(queryId=hive_20210425165158_114bdcca-5e38-4491-9192-1739bb47720): LOAD DATA IMPATH 'hdfs://bigdataanalytics2-head-shdpt-v31-1-0.novalocal:8 /studenta_16/test' INFO TABLE studenta_16 . test |
16:51:59 INFO hive.HiveImport: INFO : Semantic Analysis Completed (retrial = false) |
16:51:59 INFO hive.HiveImport: INFO : Returning Hive schema: SchemafteldSchemas:mull, properties:mull) |
16:51:59 INFO hive.HiveImport: INFO : Returning Hive schema: SchemafteldSchemas:mull, properties:mull) |
16:51:59 INFO hive.HiveImport: INFO : Completed compiling command(queryId-hive_20210425165158_114bdcca-5e38-4491-9192-1739b6447f20); Time taken: 0.63 seconds |
16:51:59 INFO hive.HiveImport: INFO : Executing command(queryId-hive_20210425165158_114bdcca-5e38-4491-9192-1739b647f20): LOAD DATA IMPATH 'hdfs://bigdataanalytics2-head-shdpt-v31-1-0.novalocal:8 /studenta_16/test' INFO TABLE studenta_16/test' INFO TABLE studenta_16/
          10:51:90 INFO hive.HiveImport: INFO : Completed compiling command(queryId=hive_20210425165150_118bdcca-5e38-4491-9192-1739b6b47f20); Time taken: 0.03 seconds
10:51:90 INFO hive.HiveImport: INFO : Executing command(queryId=hive_20210425165150_118bdcca-5e38-4491-9192-1739b6b47f20); Time taken: 0.03 seconds
10:51:90 INFO hive.HiveImport: INFO : Executing task [Stage-0:HOW2] in serial mode
10:51:90 INFO hive.HiveImport: INFO : Loading data to table student3_16.test from helfs://bigdataanalytics2-head-shdpt-v31-1-0.novalocal:8020/user/student3_16/test
10:51:90 INFO hive.HiveImport: INFO : Loading data to table student3_16.test from helfs://bigdataanalytics2-head-shdpt-v31-1-0.novalocal:8020/user/student3_16/test
10:51:90 INFO hive.HiveImport: INFO : Completed executing command(queryId=hive_20210425165158_114bdcca-5e38-4491-9192-1739b6b47f20); Time taken: 0.151 seconds
10:51:90 INFO hive.HiveImport: 0: Toos sifected (0.20 seconds)
10:51:90 INFO hive.HiveImport: 0: jdbc:hive2://bigdataanalytics2-worker-shdps
10:51:90 INFO hive.HiveImport: 0: jdbc:hive2://bigdataanalytics2-worker-shdps
2181.higdataanalytics2-worker-shdps-tool-rise forms-tool-rise forms-too
                                                                                                                                                                                                                                                                                                                                        INFO : OK ho rows affected (0.204 seconds)

0: jdbc:hive2://bigdataanalytic2-worker-shdp>
0: jdbc:hive2://bigdataanalytic2-worker-shdp>
0: jdbc:hive2://bigdataanalytic2-worker-shdp>
0: jdbc:hive2://bigdataanalytic2-worker-shdp>
0: jdbc:hive2://bigdataanalytic2-worker-shdp+ closing: 0: jdbc:hive2://bigdataanalytics2-worker-shdpt-v31-1-5.novalocal:2181,bigdataanalytic2-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic2-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:2181,bigdataanalytic3-worker-shdpt-v31-1-0.novalocal:21
                 2181.bigdatamnalytics2-worker-sheft-v31-1-4.novalocal22181.bigdatamnalytics2-worker-shout-v3-
novalocal21281/defaultpasswordhive.serviceDiscoveryModezookeeper;user=hive;zooKeeperHamespace=
16:551:59 INFO hive.Hivelimort: Hive import complete.
16:551:59 INFO hive.Hivelimorticommon: Export directory is not empty, keeping it.
16:531:59 INFO tool.ImportTool: Publishing Hivelimia import job data to Listeners for table test
16:061:gdatamnalytics2-head-hight-v31-1-0-15
```

Захожу Hive в БД student3_16 и проверяю содержимое таблицы Test

```
[student3_16@bigdataanalytics2_head-shdpt-v31-1-0_m]$ hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hive/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/hdp/3.1.4.0-315/hadoop/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Geometry of the state o
                          Completed executing command(queryId=htve_20210425105332_40aba3ca-1ca4-4092-0da4-67ab76494001), Fine taken: 0.009 Seconds

For constant of the control of the
                              tab_name
                        vehicles
                      vehicles 2
                    rows selected (0.059 seconds)
: jdbc:hive2://bigdataanalytics2-worker-shdp>
                                                                                                                                                                                                                                                                                                       shdp> select * from test limit 10;
210425165956 306a90a0-8dc9-459f-af98-ff1c3fd5ee5b); select * from test limit 10
                                                      :hive2;//Digdataanatytics2-morrer-snaps serect * from test tust; 20, compiling command(queryId=hive_20210425165956_3063900-30640-459f-af08-ffic3fdSee5b): select * from test limit 10 Semantic Analysis Completed (retrial = false) Returning Hive schemas: Schema(fieldSchemas:[FieldSchema(name:test.id, type:int, comment:null), FieldSchema(name:test.str, type:string, comment:null)], properties:null) Completed compiling command(queryId=hive_20210425165956_306a900a-8dc9-459f-af68-ffic3fdSee5b); Time taken: 0.133 seconds Executing command(queryId=hive_20210425165956_306a900a-8dc9-459f-af68-ffic3fdSee5b); select * from test limit 10 Completed executing command(queryId=hive_20210425165956_306a90a0-8dc9-459f-af68-ffic3fdSee5b); Time taken: 0.001 seconds
                              ows selected (0.218 seconds)
idbc:hive2://bigdataanalytics2-worker-shdp>
```

Чтобы удостовериться что в импортируемой базе 2 записи, захожу в PSQL и проверяю содержимое таблицы test

Захожу в hdfs dfs и проверяю содержимое папки test. Наличие файла _SUCCESS говорит об успешном импорте БД из PSQL в Hive

```
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ hdfs dfs -ls test
Found 2 items
-rw-r--r- 2 student3_16 student3_16 0 2021-04-25 16:46 test/_SUCCESS
-rw-r--r- 2 student3_16 student3_16 19 2021-04-25 16:46 test/part-m-00000
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ ■
```

Удаляю папку test в hdfs

```
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ hdfs dfs -rm -r -skipTrash test
Deleted test
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ ■
```

Удаляю таблицу test в Hive

```
Beeline version 3.1.0.3.1.4.0-315 by Apache Hive
0: jdbc:hive2://bigdataanalytics2-worker-shdp> use student3_16;
INFO : Compiling command(queryId=hive_20210425170846_89bc9d38-9748-4321-9723-2f811397ccdd): use student3_16
INFO : Semantic Analysis Completed (retrial = false)
INFO : Returning Hive schema: Schema(fieldSchemas:null, properties:null)
INFO : Completed compiling command(queryId=hive_20210425170846_89bc9d38-9748-4321-9723-2f811397ccdd); Time taken: 0.004 seconds
INFO : Executing command(queryId=hive_20210425170846_89bc9d38-9748-4321-9723-2f811397ccdd): use student3_16
INFO : Starting task [Stage-0:DDL] in serial mode
INFO : Completed executing command(queryId=hive_20210425170846_89bc9d38-9748-4321-9723-2f811397ccdd); Time taken: 0.012 seconds
INFO : OK
No rows affected (0.124 seconds)
0: jdbc:hive2://bigdataanalytics2-worker-shdp> drop table test;
INFO : Compiling command(queryId=hive_20210425170856_84fdbefa-4935-4820-b84a-618c62115551): drop table test
INFO : Semantic Analysis Completed (retrial = false)
INFO : Returning Hive schema: Schema(fieldSchemas:null, properties:null)
INFO : Completed compiling command(queryId=hive_20210425170856_84fdbefa-4935-4820-b84a-618c62115551); Time taken: 0.041 seconds
INFO : Executing command(queryId=hive_20210425170856_84fdbefa-4935-4820-b84a-618c62115551); Time taken: 0.041 seconds
INFO : Starting task [Stage-0:DDL] in serial mode
INFO : Completed executing command(queryId=hive_20210425170856_84fdbefa-4935-4820-b84a-618c62115551); Time taken: 0.115 seconds
INFO : Completed executing command(queryId=hive_20210425170856_84fdbefa-4935-4820-b84a-618c62115551); Time taken: 0.115 seconds
INFO : Office of the completed of the completed of the completed executing command(queryId=hive_20210425170856_84fdbefa-4935-4820-b84a-618c62115551); Time taken: 0.115 seconds
INFO : Office of the completed of the complete of the co
```

Выполняю команду импорта с помощью sqoop из БД PSQL в Hive использую параметр –split-by id

```
[stient:100k:gdafamanlytics2.head-shdpt.v31-1-0 -]$ spoop import --comment jdbc:postgresql://10.00.0.7/lessors --username exporter_pass --table test --hive-import --hive-database studen Maring: //ar/hdp/3.1.4.0.15/accumale dash not satist Accumale imports with fail.

### Please est Second() joint to the root of your Accumale installation.

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```

```
| 11.00.00 | 10.00 magnetime | import | indication | 2 records | 12.00.00 | 10.00 magnetime | import | indication | indica
```

Захожу в hdfs dfs и проверяю содержимое папки test. Наличие файла _SUCCESS говорит об успешном импорте БД из PSQL в Hive. Т.к. в таблице БД PSQL было 2 записи (2 id), то соответственно и 2 файла part-m-

```
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ hdfs dfs -ls test
Found 3 items
-rw-r--r-- 2 student3_16 student3_16 0 2021-04-25 17:10 test/_SUCCESS
-rw-r--r-- 2 student3_16 student3_16 9 2021-04-25 17:10 test/part-m-00000
-rw-r--r-- 2 student3_16 student3_16 10 2021-04-25 17:10 test/part-m-00001
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ ■
```

Захожу Hive в БД student3 16 и проверяю содержимое таблицы Test

2. FLUME

Арасће Flume — распределенная и высоконадежная система для эффективного сбора, агрегации и сохранения больших объемов логов из множества различных источников в централизованное хранилище данных

Подготавливаю скрипт heartbeat.sh в директории flm и файл конфигурации flm.conf

```
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ cd flm
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ vim heartbeat.sh
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ chmod a+x heartbeat.sh
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ ./heartbeat.sh
./heartbeat.sh: line 12: syntax error: unexpected end of file
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ vim heartbeat.sh
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ ./heartbeat.sh
./heartbeat.sh: line 12: syntax error: unexpected end of file
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ vim heartbeat.sh
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ ./heartbeat.sh
./heartbeat.sh: line 11: syntax error: unexpected end of file
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ vim heartbeat.sh
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ ./heartbeat.sh
I live for 0 seconds;2021-04-25:17.47.30;2021-04-25:17.47.30;I did it 1
0m0.002s 0m0.002s
0m0.007s
I live for 10 seconds;2021-04-25:17.47.30;2021-04-25:17.47.30;I did it 2
0m0.003s 0m0.003s
0m0.014s 0m0.014s
^C[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 flm]$ ■
```

Выполняю команду импорта с помощью flume с использованием скрипта и конфигурационного файла, созданных на предыдущем этапе

```
Institutes in including Hadeop Tubraries found via (/bin/hadeop) for HOTS access
Info: Including Hadeop Tubraries found via (/bin/hadeop) for HOTS access
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```

Проверяю наличие созданных логов

```
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$ hdfs dfs -ls flm
Found 5 items
-rw-r--r- 2 student3_16 student3_16 784 2021-04-25 18:00 flm/FlumeData.1619373600662.log
-rw-r--r- 2 student3_16 student3_16 770 2021-04-25 18:01 flm/FlumeData.1619373600663.log
-rw-r--r- 2 student3_16 student3_16 771 2021-04-25 18:01 flm/FlumeData.1619373600664.log
-rw-r--r- 2 student3_16 student3_16 833 2021-04-25 18:02 flm/FlumeData.1619373696895.log
-rw-r--r- 2 student3_16 student3_16 397 2021-04-25 18:02 flm/FlumeData.1619373731754.log
[student3_16@bigdataanalytics2-head-shdpt-v31-1-0 ~]$
```

Создаю таблицу в hive

```
create external table flm_logs (first string, second string, third string,
fourth string, fifth string)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ';'
STORED AS INPUTFORMAT 'org.apache.hadoop.mapred.SequenceFileInputFormat'
OUTPUTFORMAT 'org.apache.hadoop.hive.ql.io.HiveSequenceFileOutputFormat'
location '/user/student3_16/flm'
;
```

```
Beeline version 3.1.0.3.1.4.0-315 by Apache Hive
| 1. jdbc.htve2//bigdatanalytics2_worker-shdps_use_student3_16;
| 1. jdbc.htve2//bigdatanalytics2_worker-shdps_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_student3_use_stud
```

Проверяю содержимое таблицы

```
select * from flm_logs;
```

```
0: jdbc:hive2://bigdataanalytics2-worker-shdp> select * from flm logs;
INFO : Compiling command(queryId=hive_20210426151921_4c7c0d67-9f8f-4559-8379-d794e408eb44): select * from flm_logs
INFO : Semantic Analysis Completed (retrial = false)
INFO : Seturning Hive schema: Schema(fieldSchemas:[FieldSchema(name:flm_logs.first, type:string, comment:null), FieldSchema(name:flm_logs.fourth, type:string, comment:null), FieldSchema(name:flm_logs.fourth, type:string, comment:null), FieldSchema(name:flm_logs.fifth, type:string, INFO : Completed compiling command(queryId=hive_20210426151921_4c7c0d67-9f8f-4559-8379-d794e408eb44); Time taken: 0.152 seconds
INFO : Completed executing command(queryId=hive_20210426151921_4c7c0d67-9f8f-4559-8379-d794e408eb44); Time taken: 0.001 seconds
INFO : OK
                                                                                     flm_logs.second
                                                                                                                                                                                                                  | flm_logs.fourth | flm_logs.fifth |
                  flm_logs.first
                                                                                                                                                             flm_logs.third
    I live for 0 seconds
0m0.002s 0m0.007s
0m0.011s 0m0.004s
I live for 10 seconds
0m0.005s 0m0.007s
0m0.015s 0m0.007s
0m0.015s 0m0.014s
I live for 20 seconds
0m0.006s 0m0.008s
0m0.006s 0m0.019s
I live for 30 seconds
0m0.006s 0m0.010s
0m0.008s
0m0.009s 0m0.019s
I live for 40 seconds
0m0.007s 0m0.011s
0m0.033s 0m0.033s
I live for 40 seconds
0m0.007s 0m0.011s
0m0.037s 0m0.011s
0m0.037s 0m0.041s
I live for 50 seconds
0m0.007s 0m0.041s
I live for 50 seconds
0m0.007s 0m0.05s
0m0.007s
0m0.013s
0m0.038s
0m0.009s 0m0.04s
I live for 50 seconds
0m0.009s 0m0.01s
0m0.019s
0m0.019s
I live for 60 seconds
0m0.009s 0m0.015s
0m0.009s 0m0.016s
0m0.019s 0m0.018s
I live for 80 seconds
0m0.019s 0m0.017s
0m0.055s 0m0.063s
I live for 100 seconds
0m0.010s 0m0.018s
0m0.060s 0m0.068s
I live for 100 seconds
0m0.012s 0m0.018s
0m0.060s 0m0.068s
I live for 110 seconds
0m0.013s 0m0.022s
0m0.079s 0m0.082s
I live for 120 seconds
0m0.013s 0m0.022s
0m0.013s 0m0.028s
I live for 130 seconds
0m0.013s 0m0.028s
I live for 130 seconds
0m0.013s 0m0.028s
I live for 140 seconds
0m0.013s 0m0.028s
I live for 130 seconds
0m0.013s 0m0.028s
I live for 140 seconds
0m0.013s 0m0.028s
                                                                                  2021-04-25:17.59.56
                                                                                                                                                    2021-04-25:17.59.56
                                                                                  2021-04-25:17.59.56
                                                                                                                                                                                                                         I did it 2
                                                                                                                                                                                                                        I did it 3
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                        I did it 4
                                                                                  2021-04-25:17.59.56
                                                                                                                                                    2021-04-25:17.59.56
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                        I did it 5
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                        I did it 6
                                                                                                                                                                                                                        I did it 7
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                        I did it 8
                                                                                  2021-04-25:17.59.56
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                                                                                                                                                                                                                        I did it 9
                                                                                  2021-04-25:17.59.56
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                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                        I did it 10
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                        I did it 11
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                         I did it 12
                                                                                                                                                                                                                        I did it 13
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                        I did it 14
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                  2021-04-25:17.59.56
                                                                                                                                                     2021-04-25:17.59.56
                                                                                                                                                                                                                        I did it 15
 45 rows selected (0.318 seconds)
```