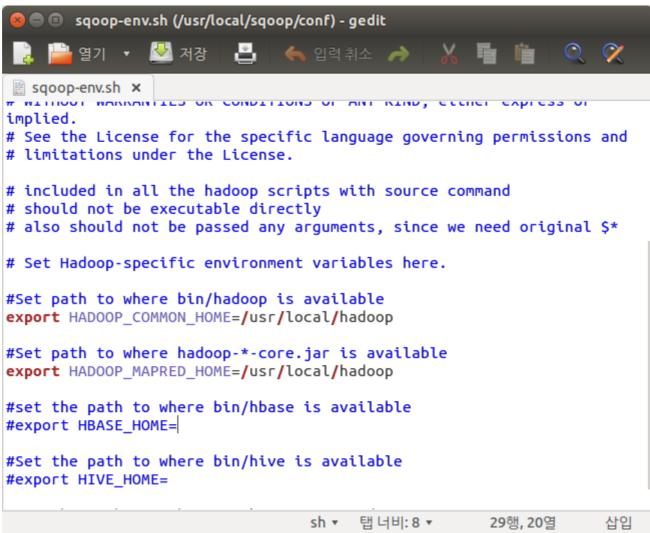
## 1.sqoop설치

http://apache.mirror.cdnetworks.com/sqoop/1.4.6

## 2.sqoop설정

#### Sqoop-env.sh



## 2.sqoop설정

#### ·Sqoop/lib에 jdbc드라이버 복사

```
🕒 📵 sist@sist-Samsung-DeskTop-System: /usr/local/sqoop/lib
                           metastore db
                                            sqoop-test-1.4.6.jar
LICENSE.txt
               conf
               derby.log pom-old.xml
NOTICE.txt
                                            STC
README.txt
               docs
                           sale.sh
                                            testdata
SALE_TB.java
                          sex sal tb.java
               ivv
sist@sist-Samsung-DeskTop-System:/usr/local/sqoop$ cd lib
sist@sist-Samsung-DeskTop-System:/usr/local/sgoop/lib$ ls
int-contrib-1.0b3.jar
                                kite-data-mapreduce-1.0.0.jar
ant-eclipse-1.0-jvm1.2.jar
                                kite-hadoop-compatibility-1.0.0.jar
                                ojdbc6.jar
avro-mapred-1.7.5-hadoop2.jar opencsv-2.3.jar
commons-codec-1.4.jar
                                paranamer-2.3.jar
 ommons-compress-1.4.1.jar
                                parquet-avro-1.4.1.jar
                                parquet-column-1.4.1.jar
 ommons-io-1.4.jar
 ommons-jexl-2.1.1.jar
                                parquet-common-1.4.1.jar
 commons-logging-1.1.1.jar
                                parquet-encoding-1.4.1.jar
                                parquet-format-2.0.0.jar
 sqldb-1.8.0.10.jar
 ackson-annotations-2.3.0.jar parquet-generator-1.4.1.jar
                                parquet-hadoop-1.4.1.jar
parquet-jackson-1.4.1.jar
 ackson-core-2.3.1.jar
 ackson-core-asl-1.9.13.jar
                                slf4j-api-1.6.1.jar
 ackson-databind-2.3.1.jar
 ackson-mapper-asl-1.9.13.jar snappy-java-1.0.5.jar
  te-data-core-1.0.0.jar
 ite-data-hive-1.0.0.jar
sist@sist-Samsung-DeskTop-System:/usr/local/sqoop/lib$
```

## 3.hive설치

•http://apache.mirror.cdnetworks.com/hive/hive-2.3.2/

### 4.Hive 설정

• mv conf/hive-env.sh.template conf/hive-env.sh로 hive-env.sh 생성

•Hive-env.sh 설정

```
🔊 🖨 📵 hive-env.sh (/usr/local/hive/conf) - gedit
hive-env.sh x
# Tl
# The heap size of the jvm stared by hive shell script can be
controlled via:
# export HADOOP HEAPSIZE=1024
# Larger heap size may be required when running queries over large
number of files or partitions.
# By default hive shell scripts use a heap size of 256 (MB). Larger
heap size would also be
# appropriate for hive server.
# Set HADOOP HOME to point to a specific hadoop install directory
HADOOP HOME=/usr/local/hadoop
# Hive Configuration Directory can be controlled by:
# export HIVE CONF DIR=
# Folder containing extra libraries required for hive compilation/
execution can be controlled by:
# export HIVE AUX JARS PATH=
                                  sh ▼
                                        탭 너비: 8 ▼
                                                       46행, 1열
                                                                    삽입
```

## 4.Hive 설정

• mv conf/hive-env.sh.template conf/hive-env.sh로 hive-env.sh 생성

```
·Hive-site.xml 설정
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<configuration>
   cproperty>
      <name>hive.metastore.local</name>
      <value>false</value>
   </property>
   cproperty>
      <name>javax.jdo.option.ConnectionURL</name>
      -value \ idhc:oracle:thin:@211 238 1/2 100:1521:orcl < //alue \</p>
```

## 4.Hive 설정

•hive/lib에 jdbc드라이버 복사

# 5.sqoop에서 hive로 import

./bin/sqoop import --connect jdbc:oracle:thin:@211.238.142.109:1521:orcl -username AC --password 4321 --table SALE\_TB --hive-import --create-hive-table --hive-table default.sale

### 6.hive 실행

hive폴더로 들어가서 ./bin/hive를 하면 실행됨.

## 7.hive 쿼리 실행

#### Show tables로 테이블 확인

```
sist@sist-Samsung-DeskTop-System: /usr/local/hive
sist@sist-Samsung-DeskTop-System:/usr/local/hive$ ls
${system:java.io.tmpdir} bin
                                                   examples metastore db
                          binary-package-licenses hcatalog scripts
LICENSE
NOTICE
                                                   idbc
                          derby.log
RELEASE NOTES.txt
                                                   lib
sist@sist-Samsung-DeskTop-System:/usr/local/hive$ ./bin/hive
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/local/apache-hive-2.3.2-bin/lib/log4j-slf
4j-impl-2.6.2.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/local/hadoop-2.8.2/share/hadoop/common/li
b/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Logging initialized using configuration in jar:file:/usr/local/apache-hive-2.3.2
-bin/lib/hive-common-2.3.2.jar!/hive-log4j2.properties Async: true
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versio
ns. Consider using a different execution engine (i.e. spark, tez) or using Hive
1.X releases.
hive> show tables;
OK
sale
Time taken: 2.696 seconds, Fetched: 1 row(s)
hive>
```

## 7.hive 쿼리 실행

•Show create table로 테이블 생성

```
sist@sist-Samsung-DeskTop-System: /usr/local/hive
Time taken: 2.696 seconds, Fetched: 1 row(s)
hive> show create table sale;
OK
CREATE TABLE `sale`(
  `sto id` string.
 `sal dt` string.
 `pdt_no` string,
 `sal_cnt` double,
 `sex_cd` string,
 `age cd` string)
COMMENT 'Imported by sqoop on 2018/01/02 15:38:32'
ROW FORMAT SERDE
  'org.apache.hadoop.hive.serde2.lazy.LazySimpleSerDe'
WITH SERDEPROPERTIES (
  'field.delim'=' 00 .
  'line.delim'='\[ \overline{n'} \],
  'serialization.format'='[])
STORED AS INPUTFORMAT
  'org.apache.hadoop.mapred.TextInputFormat'
OUTPUTFORMAT
  'org.apache.hadoop.hive.ql.io.HiveIgnoreKeyTextOutputFormat'
LOCATION
  'hdfs://localhost:9000/user/hive/warehouse/sale'
TBLPROPERTIES
```

## 7.hive 쿼리 실행

#### •쿼리 문 실행

```
🔞 🖃 📵 sist@sist-Samsung-DeskTop-System: /usr/local/hive
hive> select * from sale;
OK
11111
        2017-12-12 00:00:00.0
                                 00001
                                          10.0
                                                  1
                                                           20
11111
        2017-12-12 00:00:00.0
                                 00002
                                          7.0
                                                  1
                                                           20
11111
                                                  1
        2017-12-12 00:00:00.0
                                 00003
                                          9.0
                                                          20
11111
        2017-12-12 00:00:00.0
                                 00004
                                          11.0
                                                  1
                                                          20
11111
        2017-12-12 00:00:00.0
                                          15.0
                                 00005
                                                  1
                                                           20
11111
        2017-12-12 00:00:00.0
                                                  1
                                         19.0
                                 00006
                                                           20
11111
        2017-12-13 00:00:00.0
                                 00003
                                          9.0
                                                  1
                                                           20
11111
        2017-12-20 12:32:52.0
                                 00001
                                          1.0
                                                  A1 01
                                                          A2 02
11111
        2017-12-20 12:32:57.0
                                                  A1 01
                                                          A2 02
                                 00001
                                          1.0
11111
                                                  A1 01
                                                          A2 01
        2017-12-20 12:33:41.0
                                 00003
                                          2.0
11111
                                                  A1 01
                                                          A2 01
        2017-12-20 12:33:45.0
                                 00003
                                          2.0
11111
        2017-12-20 12:45:32.0
                                                  A1 01
                                 00001
                                          2.0
                                                          A2_02
11111
        2017-12-21 11:55:07.0
                                 00001
                                         1.0
                                                  A1 01
                                                          A2 02
11111
        2017-12-28 09:01:47.0
                                                  A1 02
                                                          A2 01
                                 00003
                                          5.0
11111
                                                  A2 03
                                                          A3 01
        2017-12-19 18:35:07.0
                                 00001
                                          3.0
                                                  A2 03
11111
        2017-12-19 18:35:37.0
                                 00001
                                          3.0
                                                          A3 01
11111
        2017-12-12 00:00:00.0
                                         10.0
                                 00030
                                                  1
                                                           20
11111
        2017-12-12 00:00:00.0
                                 00031
                                          10.0
                                                  1
                                                           20
11111
                                          7.0
        2017-12-12 00:00:00.0
                                 00032
                                                  1
                                                           20
11111
                                                  1
        2017-12-13 00:00:00.0
                                 00033
                                          9.0
                                                           20
11111
        2017-12-14 00:00:00.0
                                 00030
                                          10.0
                                                  1
                                                           20
                                                          A2 01
11111
        2017-12-20 12:27:51.0
                                 00001
                                         3.0
                                                  A1 01
```

## 8.hive export

- •1. select 문을 가지고 테이블을 만들 수 있음.
- •2. export 명령어
- •./bin/sqoop export --connect jdbc:oracle:thin:@211.238.142.109:1521:orcl --username AC --password 4321 --table sex\_sal\_tb --direct --export-dir /user/hive/warehouse/sex\_sal\_tb --input-fields-terminated-by '\text{\psi}001'
- •Hive table에 기본 구분자
- -FIELDS TERMINATED BY '₩001'
- -- COLLECTION ITEMS TERMINATED BY '₩002'
- -MAP KEYS TERMINATED BY '₩003'
- --LINES TERMINATED BY '₩n'