```
[root@sandbox-hdp ~]# cd /etc/hive/conf
[root@sandbox-hdp conf]# ls
atlas-application.properties
                               hive-exec-log4j.properties
beeline-log4j.properties.template hive-log4j.properties
conf.server
                                  hive-site.xml
hive-default.xml.template
                                  ivysettings.xml
hive-env.sh
                                  mapred-site.xml
hive-env.sh.template
                                  parquet-logging.properties
[root@sandbox-hdp conf] # cat hive-site.xml
  <configuration>
    cproperty>
      <name>ambari.hive.db.schema.name
      <value>hive</value>
    </property>
```

```
[root@sandbox-hdp ~]# mysql -u root -p
Enter password:
Welcome to the MySOL monitor. Commands end with; or \q.
Your MySQL connection id is 51
Server version: 5.7.22 MySQL Community Server (GPL)
Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
+----+
Database
| information schema |
| druid
| hive
| mysql
| performance schema |
| ranger
superset
sys
8 rows in set (0.18 sec)
mysql> use hive;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -\mathtt{A}
Database changed
mysql> show tables;
```

```
mysql> select * from ROLES;
+-----+
| ROLE_ID | CREATE_TIME | OWNER_NAME | ROLE_NAME |
+-----+
| 1 | 1529334605 | admin | admin |
| 2 | 1529334605 | public | public |
+-----+
2 rows in set (0.00 sec)
```

Slide #74

```
[root@sandbox-hdp ~] # sqoop-import --connect jdbc:mysql://sandbox-hdp.hortonworks.com/hive --username root --P --table TBLS --target -dir /user/anup/sqoop --fields-terminated-by '|' --num-mappers 7
Warning: /usr/hdp/2.6.5.0-292/accumulo does not exist! Accumulo im ports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installatio n.
20/05/23 17:06:13 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6.2.6.5.0-292
Enter password:
20/05/23 17:06:20 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
20/05/23 17:06:20 INFO tool.CodeGenTool: Beginning code generation
```

```
AttemptID:attempt_1590192907351_0005_m_000002_0 Timed out after 300 secs
20/05/23 17:19:10 RNFO mapreduce.Job: map 86% reduce 0%
20/05/23 17:19:12 RNFO mapreduce.Job: map 100% reduce 0%
20/05/23 17:19:24 RNFO mapreduce.Job: Job job 1590192907351_0005 completed successfully
20/05/23 17:19:25 RNFO mapreduce.Job: Counters: 31

File System Counters
FILE: Number of bytes read=0
FILE: Number of bytes read=0
FILE: Number of pread-postations=0
FILE: Number of read-postations=0
FILE: Number of read-postations=0
FILE: Number of write operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=754
HDFS: Number of bytes read=754
HDFS: Number of read-postations=0
HDFS: Number of read-postations=0
HDFS: Number of read-postations=0
HDFS: Number of read-postations=14
Job Counters
Failed map tasks=14
Job Counters
Failed map tasks=14
Total time spent by all maps in occupied slots (ms)=3170093
Total time spent by all reduces in occupied slots (ms)=0
Total time spent by all map tasks (ms)=3170093
Total time spent by all map tasks (ms)=3170093
Total tovers-milliseconds taken by all map tasks=792523250
Map-Reduce Framework
Map input records=37
Map input records=37
Map input split bytes=754
Spilled Records=0
Failed Shuffles=0
Merged Map outputs=0
GC time elapsed (ms)=27651
CFU time spent (ms)=48980
Physical memory (bytes) snapshot=184595968
Virtual memory (bytes) snapshot=184595968
Virtual memory (bytes) snapshot=13667975168
Total committed heap usage (bytes)=309329920
File Input Format Counters
Bytes Written=2544
Suffice North Counters Bytes Written=2541
Suffice North Counter Suffice North Coun
```

```
[root@sandbox-hdp ~]# hdfs dfs -ls /user/anup/
Found 1 items
                                0 2020-05-23 17:19 /user/anup/sqoop
drwxr-xr-x
           - root hdfs
[root@sandbox-hdp ~] # hdfs dfs -ls /user/anup/sqoop
Found 8 items
-rw-r--r-- 1 root hdfs
                                0 2020-05-23 17:19 /user/anup/sqoop/ SUCCESS
          1 root hdfs
                             424 2020-05-23 17:19 /user/anup/sqoop/part-m-00000
-rw-r--r--
-rw-r--r-- 1 root hdfs
                             385 2020-05-23 17:19 /user/anup/sqoop/part-m-00001
                             403 2020-05-23 17:19 /user/anup/sqoop/part-m-00002
-rw-r--r-- 1 root hdfs
-rw-r--r--
          1 root hdfs
                             305 2020-05-23 17:19 /user/anup/sqoop/part-m-00003
                             324 2020-05-23 17:19 /user/anup/sqoop/part-m-00004
-rw-r--r-- 1 root hdfs
                             321 2020-05-23 17:19 /user/anup/sqoop/part-m-00005
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                             382 2020-05-23 17:19 /user/anup/sqoop/part-m-00006
```

Slide #78

```
[root@sandbox-hdp ~]# hdfs dfs -cat /user/anup/sqoop/part-m-00000
1|1529335142|2|0|hive|0|1|sales_fact_1997|EXTERNAL_TABLE|null|null
2|1529335145|2|0|hive|0|2|sales_fact_1998|EXTERNAL_TABLE|null|null
3|1529335147|2|0|hive|0|3|sales_fact_dec_1998|EXTERNAL_TABLE|null|null
4|1529335150|2|0|hive|0|4|inventory_fact_1997|EXTERNAL_TABLE|null|null
5|1529335152|2|0|hive|0|5|inventory_fact_1998|EXTERNAL_TABLE|null|null
6|1529335154|2|0|hive|0|6|agg_pl_01_sales_fact_1997|EXTERNAL_TABLE|null|null
```

```
Database changed
mysql> select * from TBLS LIMIT 10;
 TBL_ID | CREATE_TIME | DB_ID | LAST_ACCESS_TIME | OWNER | RETENTION | SD_ID | TBL_NAME
                                                                                | TBL TYPE
                                                                                               | VIEW EXPANDED TEXT | VIEW ORIGINA
           1 | 1529335142 | 2 |
                                     0 | hive |
                                                    0 | 1 | sales fact 1997
                                                                                 | EXTERNAL TABLE | NULL
                                                                                                               NULL
     2 | 1529335145 | 2 |
                                                    0 | 2 | sales_fact_1998
                                                                                | EXTERNAL_TABLE | NULL
                                    0 | hive |
                                                                                                              | NULL
     3 | 1529335147 | 2 |
                                    0 | hive |
                                                    0 | 3 | sales_fact_dec_1998 | EXTERNAL_TABLE | NULL
                                                                                                              | NULL
     4 | 1529335150 | 2 |
                                    0 | hive |
                                                    0 | 4 | inventory fact 1997 | EXTERNAL TABLE | NULL
                                                                                                               NULL
                                                    0 | 5 | inventory_fact_1998
     5 | 1529335152 | 2 |
                                    0 | hive |
                                                                                | EXTERNAL_TABLE | NULL
                                                                                                               NULL
     6 | 1529335154 | 2 |
                                                    0 | 6 | agg pl 01 sales fact 1997 | EXTERNAL TABLE | NULL
                                     0 | hive |
                                                                                                               NULL
     7 | 1529335157 | 2 |
                                     0 | hive |
                                                    0 | 7 | agg 11 01 sales fact 1997 | EXTERNAL TABLE | NULL
                                                                                                               I NULL
                                                    0 | 8 | agg_l_03_sales_fact_1997 | EXTERNAL_TABLE | NULL
     8 | 1529335159 | 2 |
                                     0 | hive |
                                                                                                               | NULL
     9 | 1529335161 | 2 |
                                    0 | hive |
                                                   0 | 9 | agg 1 04 sales fact 1997 | EXTERNAL TABLE | NULL
                                                                                                               NULL
    10 | 1529335164 | 2 |
                                     0 | hive |
                                                   0 | 10 | agg_1_05_sales_fact_1997 | EXTERNAL_TABLE | NULL
                                                                                                               NULL
10 rows in set (0.00 sec)
```

```
mysql> select * from ROLES;
+-----+
| ROLE_ID | CREATE_TIME | OWNER_NAME | ROLE_NAME |
+-----+
| 1 | 1529334605 | admin | admin |
| 2 | 1529334605 | public | public |
+-----+
2 rows in set (0.00 sec)
```

Slide #80

```
20/05/23 17:57:40 INFO db.DataDrivenDBInputFormat: BoundingValsQuery: SELECT MIN(`ROLE_ID`), MAX(`ROLE_ID`) FROM `ROLES` 20/05/23 17:57:40 INFO db.IntegerSplitter: Split size: 0; Num splits: 4 from: 1 to: 2 20/05/23 17:57:41 INFO mapreduce.JobSubmitter: number of splits:2 20/05/23 17:57:42 INFO mapreduce.JobSubmitter: Submitting tokens for job: job 1590192907351 0006
```

```
[root@sandbox-hdp ~] # sqoop-import --connect jdbc:mysql://sandbox-hdp.hortonworks.com/hive --username root --P --ta ble TBLS --target-dir /user/anup/sqoop/tbls --fields-terminated-by '|' --num-mappers 8
Warning: /usr/hdp/2.6.5.0-292/accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
20/05/23 18:19:40 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6.2.6.5.0-292
Enter password:
```

```
20/05/23 18:20:13 INFO db.IntegerSplitter: Split size: 4; Num splits: 8 from: 1 to: 37 20/05/23 18:20:13 INFO mapreduce.JobSubmitter: number of splits:8 20/05/23 18:20:13 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1590192907351_0007 20/05/23 18:20:14 INFO impl.YarnClientImpl: Submitted application application_1590192907351_0007
```

Slide #85

```
[root@sandbox-hdp ~]# hdfs dfs -ls /user/anup/sqoop/
Found 10 items
                                  0 2020-05-23 17:19 /user/anup/sqoop/ SUCCESS
-rw-r--r-- 1 root hdfs
drwxr-xr-x - root hdfs
                                  0 2020-05-23 17:58 /user/anup/sqoop/hive roles
-rw-r--r-- 1 root hdfs
                               424 2020-05-23 17:19 /user/anup/sqoop/part-m-00000
-rw-r--r-- 1 root hdfs
                               385 2020-05-23 17:19 /user/anup/sqoop/part-m-00001
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                               403 2020-05-23 17:19 /user/anup/sqoop/part-m-00002
                                305 2020-05-23 17:19 /user/anup/sqoop/part-m-00003
-rw-r--r-- 1 root hdfs
                               324 2020-05-23 17:19 /user/anup/sqoop/part-m-00004
-rw-r--r-- 1 root hdfs
                               321 2020-05-23 17:19 /user/anup/sqoop/part-m-00005
-rw-r--r-- 1 root hdfs
                               382 2020-05-23 17:19 /user/anup/sqoop/part-m-00006
drwxr-xr-x - root hdfs
                                0 2020-05-23 18:21 /user/anup/sqoop/tbls
[root@sandbox-hdp ~]# hdfs dfs -ls /user/anup/sqoop/tbls/
Found 9 items
-rw-r--r-- 1 root hdfs
                                 0 2020-05-23 18:21 /user/anup/sqoop/tbls/ SUCCESS
-rw-r--r-- 1 root hdfs
                               347 2020-05-23 18:21 /user/anup/sqoop/tbls/part-m-00000
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                                384 2020-05-23 18:21 /user/anup/sqoop/tbls/part-m-00001
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                               402 2020-05-23 18:21 /user/anup/sqoop/tbls/part-m-00002
                               326 2020-05-23 18:21 /user/anup/sqoop/tbls/part-m-00003
-rw-r--r-- 1 root hdfs
                               254 2020-05-23 18:21 /user/anup/sqoop/tbls/part-m-00004
-rw-r--r-- 1 root hdfs
                              256 2020-05-23 18:21 /user/anup/sqoop/tbls/part-m-00005
-rw-r--r-- 1 root hdfs
                               253 2020-05-23 18:21 /user/anup/sqoop/tbls/part-m-00006
-rw-r--r- 1 root hdfs 322 2020-05-23 18:21 /user/anup/sqoop/tbls/part-m-00007
```

```
[root@sandbox-hdp ~] # hdfs dfs -cat /user/anup/sqoop/tbls/part-m-00001 6|1529335154|2|0|hive|0|6|agg_pl_01_sales_fact_1997|EXTERNAL_TABLE|null|null 7|1529335157|2|0|hive|0|7|agg_ll_01_sales_fact_1997|EXTERNAL_TABLE|null|null 8|1529335159|2|0|hive|0|8|agg_l_03_sales_fact_1997|EXTERNAL_TABLE|null|null 9|1529335161|2|0|hive|0|9|agg_l_04_sales_fact_1997|EXTERNAL_TABLE|null|null 10|1529335164|2|0|hive|0|10|agg_l_05_sales_fact_1997|EXTERNAL_TABLE|null|null
```

```
Database changed
mysql> select count(*) from TBLS;
+-----+
| count(*) |
+-----+
| 37 |
+-----+
1 row in set (0.08 sec)
```

```
[root@sandbox-hdp ~]# sqoop help
Warning: /usr/hdp/2.6.5.0-292/accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
20/05/23 18:37:17 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6.2.6.5.0-292
usage: sqoop COMMAND [ARGS]
Available commands:
 codegen
                     Generate code to interact with database records
 create-hive-table Import a table definition into Hive
                    Evaluate a SQL statement and display the results
 eval
                    Export an HDFS directory to a database table
 export
                   List available commands
 help
                    Import a table from
```

Slide # 95

```
[root@sandbox-hdp ~]# sqoop-import --connect jdbc:mysql://sandbox-hdp.hortonworks.com/hive --username root --P --table TBLS --target-dir /user/anup/sqoop/tbl s --fields-terminated-by '|' --num-mappers 8 --delete-target-dir
Warning: /usr/hdp/2.6.5.0-292/accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
20/05/23 18:41:39 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6.2.6.5.0-292
Enter password:
20/05/23 18:41:45 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
```

Slide #97

```
[root@sandbox-hdp ~]# sqoop-import --connect jdbc:mysql://sandbox-hdp.hortonworks.com/hive --username root --P --query 'select * from TBLS where $CONDITIONS limit 75' --target-dir /user/anup/sqoop/tbls --fields-terminated-by '|' --num-mappers 8 --delete-target-dir --split-by TBL_ID
Warning: /usr/hdp/2.6.5.0-292/accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
20/05/23 18:53:12 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6.2.6.5.0-292
Enter password:
20/05/23 18:53:22 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
```

```
[root@sandbox-hdp ~]# hdfs dfs -ls /user/anup/sqoop/tbls/
Found 9 items
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                                     0 2020-05-23 18:54 /user/anup/sqoop/tbls/_SUCCESS
                                  347 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00000
-rw-r--r-- 1 root hdfs
                                  384 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00001
-rw-r--r-- 1 root hdfs
                                  402 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00002
                                  326 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00003
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
-rw-r--r-- 1 root hdfs
                                  254 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00004 256 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00005
-rw-r--r-- 1 root hdfs
                                  253 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00006
                                  322 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00007
-rw-r--r-- 1 root hdfs
[root@sandbox-hdp ~]# hdfs dfs -ls /user/anup/sqoop/tbls/part-m-00007
-rw-r--r- 1 root hdfs 322 2020-05-23 18:54 /user/anup/sqoop/tbls/part-m-00007 [root@sandbox-hdp ~] # hdfs dfs -cat /user/anup/sqoop/tbls/part-m-00007
33|1529335216|2|0|hive|0|33|store|EXTERNAL TABLE|null|null
34|1529335218|2|0|hive|0|34|store_ragged|EXTERNAL_TABLE|null|null
35|1529335221|2|0|hive|0|35|time by day|EXTERNAL TABLE|null|null
36|1529335223|2|0|hive|0|36|warehouse|EXTERNAL TABLE|null|null
37|1529335225|2|0|hive|0|37|warehouse class|EXTERNAL TABLE|null|null
```

Database changed mysql> select * from TBLS limit 10;														
TBL_I	D I	_	_		LAST_ACCESS_TIME					_	TBL_NAME	TBL_TYPE	VIEW_EXPANDED_TEXT	VIEW_ORIGIN
1		1529335142		2			hive	1	0		sales_fact_1997	EXTERNAL_TABLE	NULL	NULL
1 :	2	1529335145	1 :	2	0	ī	hive	I	0	2	sales_fact_1998	EXTERNAL_TABLE	NULL	NULL
1 :	3	1529335147	1 :	2	0	Ī	hive	I	0	3	sales_fact_dec_1998	EXTERNAL_TABLE	NULL	NULL
1	4	1529335150	1 :	2	0	Ī	hive	I	0	4	inventory_fact_1997	EXTERNAL_TABLE	NULL	NULL
1	1 5	1529335152	1 :	2	0	Ī	hive	I	0	5	inventory_fact_1998	EXTERNAL_TABLE	NULL	NULL
1	 6	1529335154		2	0	ī	hive	I	0	6	agg_pl_01_sales_fact_1997	EXTERNAL_TABLE	NULL	NULL
1	7	1529335157	1 :	2	0	ı	hive	I	0	7	agg_ll_01_sales_fact_1997	EXTERNAL_TABLE	NULL	NULL