```
Logging initialized using configuration in file:/
etc/hive/2.3.4.0-3485/0/hive-log4j.properties
hive (default)> SET hive.execution.engine=mr;
hive (default)> create database iaminusa19828041
0K
Time taken: 1.072 seconds
hive (default)> use iaminusa19828041;
0K
Time taken: 0.029 seconds
hive (iaminusa19828041)> create table
tel cdr raw(session id string,simcard id
string,phone_number string,call_time
string,duration int,cell_id string, network_type
string, drop reason string) row fo
rmat delimited fields terminated by ',' stored as
textfile:
0K
Time taken: 0.085 seconds
hive (iaminusa19828041)> LOAD data inpath '/user/
iaminusa19828041/simplecdr' into table
tel cdr raw;
Loading data to table iaminusa19828041.tel_cdr_raw
Table iaminusa19828041.tel_cdr_raw stats:
[numFiles=1, totalSize=18171]
0K
Time taken: 0.326 seconds
```

```
limit 5:
0K
rnd-dcad1bbb-cd4c-4927-929d-94f6a929f061
SIM-00002 PHONE-00009 27/04/2015 13:35:11
17561 cell F 2
                       REASON 2
rnd-588ff3de-84b6-4903-a1de-e1cd2faca9a8
SIM-00010 PHONE-00004 27/04/2015 13:35:12
17361 cell A 1 REASON 8
rnd-ef5af2cd-51fa-46dd-80b4-c7c089ca67d3
SIM-00008 PHONE-00004 27/04/2015 13:35:13
7061 cell G 2 REASON 9
rnd-169de378-87b4-4c54-9315-7c1991bb1651
SIM-00006 PHONE-00010 27/04/2015 13:35:14
18361 cell A 1 REASON 4
rnd-683c335a-b2b8-4b35-8758-2bff7f1f31ad
SIM-00002 PHONE-00001 27/04/2015 13:35:16
15361 cell E 1 REASON 10
Time taken: 0.095 seconds, Fetched: 5 row(s)
hive (iaminusa19828041)>
hive (iaminusa19828041)> create table
tel cdr proc(session id string,simcard id
string, phone number string, call time
string,duration int,cell id string, network type
string, drop reason string, call d
rop_status string);
0K
```

hive (iaminusa19828041)> insert into tel_cdr_proc

hive (iaminusa19828041)> select * from tel cdr raw

```
> select
t2.session_id,t2.simcard_id,t2.phone_number,t2.call
_time,t2.duration,t2.cell_id,t2.network_type,t2.dro
p reason,
                       > CASE
                       > WHEN previous timestamp is
null then 'NA'
                       > WHEN ((previous_timestamp)
+ previous duration - (timestampx)) > 60 then 'NOT-
DROPPED'
                       > WHEN ((previous_timestamp)
+ previous duration - (timestampx)) < 60 then</pre>
'DROPPED'
                       > END as call drop status
                       > FROM (
                       > SELECT
                       > t1.*,
                       > LAG(call_time, 1) OVER
(PARTITION BY simcard_id, phone_number ORDER BY
timestampx ) as previous callstarttime,
                       > LAG(duration, 1) OVER
(PARTITION BY simcard_id, phone_number ORDER BY
timestampx ) as previous duration,
                       > LAG(drop reason, 1) OVER
(PARTITION BY simcard_id, phone_number ORDER BY
timestampx ) as previous dropreason,
                       > LAG(timestampx, 1) OVER
(PARTITION BY simcard_id, phone_number ORDER BY
timestampx ) as previous_timestamp
                       > FROM (
                       > SELECT cdr.*,
unix_timestamp(call_time,'dd/MM/yyyy HH:mm:ss')
timestampx
                       > FROM tel cdr raw cdr
```

```
> )t2;
Query ID =
iaminusa19828041 20170729162949 cb689898-220c-4bd8-
8f07-98a1dfe77c54
Total jobs = 1
Launching Job 1 out of 1
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_1498404677707_6990, Tracking URL
= http://a.cloudxlab.com:8088/proxy/
application 1498404677707 6990/
Kill Command = /usr/hdp/2.3.4.0-3485/hadoop/bin/
hadoop job -kill job 1498404677707 6990
Hadoop job information for Stage-1: number of
mappers: 1; number of reducers: 1
2017-07-29\ 16:29:56,370\ Stage-1\ map = 0\%,\ reduce = 0
0%
2017-07-29 16:30:02,684 Stage-1 map = 100%,
                                            reduce
= 0%, Cumulative CPU 3.84 sec
Vhive (iaminusa19828041)> select * from
tel cdr proc limit 20;
0K
rnd-3057f491-bf60-49a7-955e-e348a7968236
SIM-00001
               PHONE-00006 27/04/2015 13:35:32
461 cell F 2 REASON 7
                                       NA
```

```
rnd-28870fcb-71df-416e-adad-c33109baf28e
SIM-00001 PHONE-00006 27/04/2015 13:35:50
7061 cell I 2 REASON 5 NOT-DROPPED
rnd-8def3194-84c2-4489-bc0b-4af10bef73ed
SIM-00001 PHONE-00007 27/04/2015 13:36:11
22661 cell B 2 REASON 2
                                NA
change-408339cb-8ca9-412d-95a3-a87d87a8c03f
SIM-00001 PHONE-00007 27/04/2015 13:37:20
238 cell B 1 REASON 10 NOT-DROPPED
change-408339cb-8ca9-412d-95a3-a87d87a8c03f
SIM-00001 PHONE-00007 27/04/2015 13:37:20
238 cell B 2 REASON 10 NOT-DROPPED
rnd-8c81b5b9-301f-41bf-907a-48a643e84e79
SIM-00001 PHONE-00008 27/04/2015 13:35:26
8561 cell D 1 REASON 7 NA
rnd-b43aa056-a4c6-47d1-aa6f-2f6ad68ba6ff
SIM-00001 PHONE-00008 27/04/2015 13:36:14
7861 cell F 2 REASON 2 NOT-DROPPED
rnd-f2354458-2551-4b49-8b54-2cc64a00749e
SIM-00001 PHONE-00009 27/04/2015 13:36:20
27361 cell G 1 REASON 9
                                NA
rnd-d1e6ea89-a7e6-44c6-88f0-e7d6f98edc55
SIM-00001 PHONE-00010 27/04/2015 13:35:24
16161 cell F 1 REASON 10 NA
drop-a00f8eea-5416-4aee-b6a1-e63c8724b352
SIM-00001-20 PHONE-00009-20 27/04/2015 13:36:47
2 cell H 1 REASON 4
                                NA
drop-a00f8eea-5416-4aee-b6a1-e63c8724b352
SIM-00001-20 PHONE-00009-20 27/04/2015 13:36:51
178 cell H 1 REASON 4 DROPPED
drop-76a06907-ed97-4dd2-9d90-244b14e4e762
SIM-00001-26 PHONE-00001-26 27/04/2015 13:36:54
0 cell B 2 REASON 6
                                NA
drop-76a06907-ed97-4dd2-9d90-244b14e4e762
SIM-00001-26 PHONE-00001-26 27/04/2015 13:36:54
64 cell B 2 REASON 6 DROPPED
```

```
drop-852dea68-9061-495e-a933-567cde4f8d3e
SIM-00001-9 PHONE-00003-9 27/04/2015 13:36:34
1 cell F 1 REASON 7
                                NA
drop-852dea68-9061-495e-a933-567cde4f8d3e
SIM-00001-9 PHONE-00003-9 27/04/2015 13:36:37
33 cell F 1 REASON 7
                                DROPPED
rnd-683c335a-b2b8-4b35-8758-2bff7f1f31ad
SIM-00002 PHONE-00001 27/04/2015 13:35:16
15361 cell E 1 REASON 10
                                NA
rnd-8c722bec-8765-41c5-a41f-c6c9cfb30c20
SIM-00002 PHONE-00002 27/04/2015 13:35:42
21061 cell C 2
                   REASON 4
                                NA
change-ac5cf3db-d243-4f99-8690-f7d48b8de888
SIM-00002 PHONE-00003 27/04/2015 13:37:24
288 cell E 1 REASON 9
                                NA
change-ac5cf3db-d243-4f99-8690-f7d48b8de888
SIM-00002 PHONE-00003 27/04/2015 13:37:24
288 cell C 2
                   REASON 9
                                NOT-DROPPED
rnd-755150e7-69e5-44f3-b925-67469ef087a6
SIM-00002 PHONE-00005 27/04/2015 13:36:17
11761 cell B 1 REASON 3
                                NA
Time taken: 0.08 seconds, Fetched: 20 row(s)
```

```
hive (iaminusa19828041)> select
cell_id,drop_reason,count(*) as COT from
tel_cdr_proc where call_drop_status = 'DROPPED'
group by cell_id,drop_
reason order by COT desc limit 10;
Query ID =
iaminusa19828041_20170729163649_e9f12fce-57dc-4e22-
bf3b-52693c7b3ff0
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_1498404677707_6992, Tracking URL
= http://a.cloudxlab.com:8088/proxy/
application_1498404677707_6992/
Kill Command = /usr/hdp/2.3.4.0-3485/hadoop/bin/
hadoop job -kill job_1498404677707_6992
Hadoop job information for Stage-1: number of
```

```
| Compared | Compared
```

```
mappers: 1; number of reducers: 1
2017-07-29 16:36:55,715 Stage-1 map = 0%, reduce = 0%
2017-07-29 16:37:01,894 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.91 sec
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