root@ubuntu:/home/mrinmoy# cat f1

12434|tataconsultancyservice |60000|hyderabad

63531|Accenture |54000|Banglore

74463|cognizenttechnologies |50000|hyderabad

35362|infosys |56000|delhi

32363|indianbusinessmashine |60000|chennai

35366|techmahindra |45000|chennai

33628|wipro technologies |56000|delhi

23793|Accenture |54000|banglore

root@ubuntu:/home/mrinmoy# hive

Hive history file=/tmp/root/hive\_job\_log\_root\_201502091131\_393518059.txt

hive> create table tab12(cid int,cname string,cemp int,cloc string)

> row format delimited

> fields terminated by '|'

> lines terminated by'\n'

> stored as textfile;

OK

Time taken: 6.025 seconds

hive> load data local inpath 'f1' into table

> tab12;

Copying data from file:/home/mrinmoy/f1

Copying file: file:/home/mrinmoy/f1

Loading data to table default.tab12

OK

Time taken: 0.365 seconds

hive> select \* from tab12;

OK

12434 tataconsultancyservice 60000 hyderabad

63531 Accenture 54000 Banglore

74463 cognizenttechnologies 50000 hyderabad

35362 infosys 56000 delhi

32363 indianbusinessmashine 60000 chennai

35366 techmahindra 45000 chennai

33628 wipro technologies 56000 delhi

23793 Accenture 54000 banglore

Time taken: 0.223 seconds

--------------------------------------

hive> select \* from tab12;

OK

12434 tataconsultancyservice 60000 hyderabad

63531 Accenture 54000 Banglore

74463 cognizenttechnologies 50000 hyderabad

35362 infosys 56000 delhi

32363 indianbusinessmashine 60000 chennai

35366 techmahindra 45000 chennai

33628 wipro technologies 56000 delhi

23793 Accenture 54000 banglore

12434 tataconsultancyservice 60000 hyderabad

63531 Accenture 54000 Banglore

74463 cognizenttechnologies 50000 hyderabad

35362 infosys 56000 delhi

32363 indianbusinessmashine 60000 chennai

35366 techmahindra 45000 chennai

33628 wipro technologies 56000 delhi

23793 Accenture 54000 banglore

Time taken: 0.091 seconds

hive> select \* from tab12 where cloc like'p%';

Total MapReduce jobs = 1

Launching Job 1 out of 1

Number of reduce tasks is set to 0 since there's no reduce operator

Starting Job = job\_201502091039\_0001, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job\_201502091039\_0001

Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job\_201502091039\_0001

2015-02-09 11:44:42,002 Stage-1 map = 0%, reduce = 0%

2015-02-09 11:44:47,063 Stage-1 map = 100%, reduce = 0%

2015-02-09 11:44:49,084 Stage-1 map = 100%, reduce = 100%

Ended Job = job\_201502091039\_0001

OK

Time taken: 15.759 seconds

hive> select \* from tab12 where cloc like 'd%';

Total MapReduce jobs = 1

Launching Job 1 out of 1

Number of reduce tasks is set to 0 since there's no reduce operator

Starting Job = job\_201502091039\_0004, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job\_201502091039\_0004

Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job\_201502091039\_0004

2015-02-09 11:53:17,747 Stage-1 map = 0%, reduce = 0%

2015-02-09 11:53:20,773 Stage-1 map = 100%, reduce = 0%

2015-02-09 11:53:21,789 Stage-1 map = 100%, reduce = 100%

Ended Job = job\_201502091039\_0004

OK

35362 infosys 56000 delhi

33628 wipro technologies 56000 delhi

35362 infosys 56000 delhi

33628 wipro technologies 56000 delhi

hive> select \* from tab12 where cloc like 'h%';

Total MapReduce jobs = 1

Launching Job 1 out of 1

Number of reduce tasks is set to 0 since there's no reduce operator

Starting Job = job\_201502091039\_0003, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job\_201502091039\_0003

Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job\_201502091039\_0003

2015-02-09 11:52:35,718 Stage-1 map = 0%, reduce = 0%

2015-02-09 11:52:37,748 Stage-1 map = 100%, reduce = 0%

2015-02-09 11:52:39,777 Stage-1 map = 100%, reduce = 100%

Ended Job = job\_201502091039\_0003

OK

12434 tataconsultancyservice 60000 hyderabad

74463 cognizenttechnologies 50000 hyderabad

12434 tataconsultancyservice 60000 hyderabad

74463 cognizenttechnologies 50000 hyderabad

----------------------------------------------------

hive> select COUNT(\*) from tab12;

Total MapReduce jobs = 1

Launching Job 1 out of 1

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>

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 mapred.reduce.tasks=<number>

Starting Job = job\_201502091039\_0002, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job\_201502091039\_0002

Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job\_201502091039\_0002

2015-02-09 11:46:22,712 Stage-1 map = 0%, reduce = 0%

2015-02-09 11:46:26,732 Stage-1 map = 100%, reduce = 0%

2015-02-09 11:46:33,833 Stage-1 map = 100%, reduce = 33%

2015-02-09 11:46:34,839 Stage-1 map = 100%, reduce = 100%

Ended Job = job\_201502091039\_0002

OK

8

hive> select COUNT(\*) from tab12 where cname like 't%';

Total MapReduce jobs = 1

Launching Job 1 out of 1

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>

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 mapred.reduce.tasks=<number>

Starting Job = job\_201502091039\_0009, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job\_201502091039\_0009

Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job\_201502091039\_0009

2015-02-09 12:04:40,095 Stage-1 map = 0%, reduce = 0%

2015-02-09 12:04:42,116 Stage-1 map = 100%, reduce = 0%

2015-02-09 12:04:49,213 Stage-1 map = 100%, reduce = 33%

2015-02-09 12:04:50,222 Stage-1 map = 100%, reduce = 100%

Ended Job = job\_201502091039\_0009

OK

4

Time taken: 13.515 seconds

--------------------------

root@ubuntu:/home/mrinmoy# hadoop fs -ls /user/hive/warehouse

Found 13 items

drwxr-xr-x - root supergroup 0 2014-12-10 13:52 /user/hive/warehouse/bucketab

drwxr-xr-x - root supergroup 0 2014-12-08 18:45 /user/hive/warehouse/collectmantab

drwxr-xr-x - root supergroup 0 2014-12-24 19:20 /user/hive/warehouse/emp42

drwxr-xr-x - root supergroup 0 2014-12-27 10:04 /user/hive/warehouse/empdata100

drwxr-xr-x - root supergroup 0 2014-12-27 09:46 /user/hive/warehouse/empdata50

drwxr-xr-x - root supergroup 0 2014-12-27 10:01 /user/hive/warehouse/empdata500

drwxr-xr-x - root supergroup 0 2014-12-24 19:34 /user/hive/warehouse/empnew

drwxr-xr-x - root supergroup 0 2014-12-08 17:22 /user/hive/warehouse/sbatab

drwxr-xr-x - root supergroup 0 2014-12-08 17:33 /user/hive/warehouse/sbatab1

drwxr-xr-x - root supergroup 0 2014-12-08 17:49 /user/hive/warehouse/sbatab13

drwxr-xr-x - root supergroup 0 2014-12-19 14:18 /user/hive/warehouse/sbatab41

drwxr-xr-x - root supergroup 0 2015-02-09 12:08 /user/hive/warehouse/tab12

drwxr-xr-x - root supergroup 0 2015-02-09 11:58 /user/hive/warehouse/tab13

root@ubuntu:/home/mrinmoy# hadoop fs -ls /user/hive/warehouse/tab12

Found 3 items

-rw-r--r-- 3 root supergroup 354 2015-02-09 11:36 /user/hive/warehouse/tab12/f1

-rw-r--r-- 3 root supergroup 354 2015-02-09 11:48 /user/hive/warehouse/tab12/f1\_copy\_1

-rw-r--r-- 3 root supergroup 354 2015-02-09 12:08 /user/hive/warehouse/tab12/f1\_copy\_2

root@ubuntu:/home/mrinmoy# hadoop fs -ls /user/hive/warehouse/tab13

Found 1 items

-rw-r--r-- 3 root supergroup 354 2015-02-09 11:58 /user/hive/warehouse/tab13/f1

root@ubuntu:/home/mrinmoy# hadoop fs -cat /user/hive/warehouse/tab13/f1

12434|tataconsultancyservice |60000|hyderabad

63531|Accenture |54000|Banglore

74463|cognizenttechnologies |50000|hyderabad

35362|infosys |56000|delhi

32363|indianbusinessmashine |60000|chennai

35366|techmahindra |45000|chennai

33628|wipro technologies |56000|delhi

23793|Accenture |54000|banglore

EXTERNAL TABLE CREATION----------------

hive> create external table kkirantab (cid int,cname string,cemp int,cloc string)

> row format delimited

> fields terminated by'|'

> lines terminated by '\n'

> stored as textfile location '/hdfs/jk1';

OK

Time taken: 0.08 seconds

hive> desc kkirantab;

OK

cid int

cname string

cemp int

cloc string

Time taken: 0.13 seconds

hive> select \* from kkirantab;

OK

Time taken: 0.139 seconds

hive> load data local inpath 'f1' into

> table kkirantab;

Copying data from file:/home/mrinmoy/f1

Copying file: file:/home/mrinmoy/f1

Loading data to table default.kkirantab

OK

Time taken: 0.192 seconds

hive> select \* from kkirantab;

OK

231233 tataconsultancyservices 343434 hyderabad

343445 indian business machine 248290 banglore

808343 cognizanttechology 438024 banglore

857483 infosys 676768 delhi

783467 perfectpincode 749232 mumbai

243233 wipro 234687 hyderabad

423434 techmahindra 364783 chennai

432749 accenture 364873 visakhapatnam

Time taken: 0.177 seconds

root@ubuntu:/home/mrinmoy# hadoop fs -ls /hdfs/jk1

Found 1 items

-rw-r--r-- 1 root supergroup 377 2015-02-08 22:23 /hdfs/jk1/f1

root@ubuntu:/home/mrinmoy# hadoop fs -cat /hdfs/jk1/f1

231233|tataconsultancyservices|343434|hyderabad

343445|indian business machine|248290|banglore

808343|cognizanttechology |438024|banglore

857483|infosys |676768|delhi

783467|perfectpincode |749232|mumbai

243233|wipro |234687|hyderabad

423434|techmahindra |364783|chennai

432749|accenture |364873|visakhapatnam

hive> desc kiran; //table kiran will be deleted

OK

cid int

cname string

cemp int

cloc string

Time taken: 0.087 seconds

hive> drop table kiran;

OK

Time taken: 0.992 seconds

hive> desc kiran;

FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.DDLTask

hive> desc kkirantab; //since it is an external table only meta data will be deleted

OK

cid int

cname string

cemp int

cloc string

Time taken: 0.161 seconds

hive> drop table kkirantab;

OK

Time taken: 0.22 seconds

hive> desc kkirantab;

FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.DDLTask

root@ubuntu:/home/mrinmoy# hadoop fs -ls kiran1

ls: Cannot access kiran1: No such file or directory.

root@ubuntu:/home/mrinmoy# hadoop fs -ls kkirantab

ls: Cannot access kkirantab: No such file or directory.

root@ubuntu:/home/mrinmoy# hadoop fs -ls kkirantab

ls: Cannot access kkirantab: No such file or directory.

root@ubuntu:/home/mrinmoy# hadoop fs -cat /hdfs/jk1/f1

231233|tataconsultancyservices|343434|hyderabad

343445|indian business machine|248290|banglore

808343|cognizanttechology |438024|banglore

857483|infosys |676768|delhi

783467|perfectpincode |749232|mumbai

243233|wipro |234687|hyderabad

423434|techmahindra |364783|chennai

432749|accenture |364873|visakhapatnam

root@ubuntu:/home/mrinmoy# hadoop fs -ls kkirantab

ls: Cannot access kkirantab: No such file or directory.

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RENAMING AND ADDNING COLUMNS

> create external table kiran (cid int,cname string,cemp int,cloc string)

> row format delimited

> fields terminated by'|'

> lines terminated by '\n'

> stored as textfile;

OK

Time taken: 5.278 seconds

hive> load data local inpath 'f1' into

> table kiran;

Copying data from file:/home/mrinmoy/f1

Copying file: file:/home/mrinmoy/f1

Loading data to table default.kiran

OK

Time taken: 0.364 seconds

**hive> alter table kiran RENAME TO newkiran;**

OK

Time taken: 0.118 seconds

hive> select \* from kiran;

FAILED: Error in semantic analysis: Line 1:14 Table not found kiran

hive> select \* from newkiran;

OK

231233 tataconsultancyservices 343434 hyderabad

343445 indian business machine 248290 banglore

808343 cognizanttechology 438024 banglore

857483 infosys 676768 delhi

783467 perfectpincode 749232 mumbai

243233 wipro 234687 hyderabad

423434 techmahindra 364783 chennai

432749 accenture 364873 visakhapatnam

Time taken: 0.212 seconds

hive> **alter table newkiran ADD COLUMNS (csal int,cbranc string);**

OK

Time taken: 0.13 seconds

hive> desc newkiran;

OK

cid int

cname string

cemp int

cloc string

csal int

cbranc string

Time taken: 0.14 seconds

hive> select \* from newkiran;

OK

231233 tataconsultancyservices 343434 hyderabad NULL NULL

343445 indian business machine 248290 banglore NULL NULL

808343 cognizanttechology 438024 banglore NULL NULL

857483 infosys 676768 delhi NULL NULL

783467 perfectpincode 749232 mumbai NULL NULL

243233 wipro 234687 hyderabad NULL NULL

423434 techmahindra 364783 chennai NULL NULL

432749 accenture 364873 visakhapatnam NULL NULL

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OVERWRITE

root@ubuntu:/home/mrinmoy# nano f1 // here we have added two columns

hive> load data local inpath 'f1' overwrite into

> table newkiran;

Copying data from file:/home/mrinmoy/f1

Copying file: file:/home/mrinmoy/f1

Loading data to table default.newkiran

Deleted hdfs://localhost:8020/user/hive/warehouse/kiran

OK

Time taken: 5.197 seconds

hive> select \* from newkiran;

OK

231233 tataconsultancyservices 343434 hyderabad 5200 secunderabad

343445 indian business machine 248290 banglore 1150 sgahaa

808343 cognizanttechology 438024 banglore 1100 yyieri

857483 infosys 676768 delhi 2233 kbckbcccc

783467 perfectpincode 749232 mumbai 2382 iuidkahbca

243233 wipro 234687 hyderabad 2351 gfsbgfjhsbcks

423434 techmahindra 364783 chennai 3231 ytgdygdd

432749 accenture 364873 visakhapatnam 3231 tdtgiagdia

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CTAS(create table as select)

hive> **create table kiran12 as select cid,cname,cemp from newkiran**;

hive> select \* from kiran12;

OK

231233 tataconsultancyservices 343434

343445 indian business machine 248290

808343 cognizanttechology 438024

857483 infosys 676768

783467 perfectpincode 749232

243233 wipro 234687

423434 techmahindra 364783

432749 accenture 364873

Time taken: 0.137 seconds

hive> **create table kiran13 as select cid,cname,cbranc from newkiran**;

hive> select \* from kiran13;

OK

231233 tataconsultancyservices secunderabad

343445 indian business machine sgahaa

808343 cognizanttechology yyieri

857483 infosys kbckbcccc

783467 perfectpincode iuidkahbca

243233 wipro gfsbgfjhsbcks

423434 techmahindra ytgdygdd

432749 accenture tdtgiagdia

--------------------------------------

JOINING

hive> select \* from kk1;

OK

231233 tataconsultancyservices 343434 hyderabad 5200 secunderabad

343445 indian business machine 248290 banglore 1150 sgahaa

808343 cognizanttechology 438024 banglore 1100 yyieri

857483 infosys 676768 delhi 2233 kbckbcccc

783467 perfectpincode 749232 mumbai 2382 iuidkahbca

243233 wipro 234687 hyderabad 2351 gfsbgfjhsbcks

423434 techmahindra 364783 chennai 3231 ytgdygdd

432749 accenture 364873 visakhapatnam 3231 tdtgiagdia

Time taken: 4.865 seconds

hive> create table kk4(bid int,bname string,bemp int,bloc string,bsal int,bbran string)

> row format delimited

> fields terminated by '|'

> stored as textfile;

OK

Time taken: 0.271 seconds

hive> load data local inpath 'f2' into table kk4;

Copying data from file:/home/mrinmoy/f2

Copying file: file:/home/mrinmoy/f2

Loading data to table default.kk4

OK

Time taken: 0.31 seconds

hive> select \* from kk4;

OK

231233 ab 12 fd 32 fd

243233 rt 43 gf 34 hg

343445 gf 65 hg 76 gf

423434 Iu 67 jh 34 Bf

432749 jh 56 dd 67 fe

783467 gg 34 hg 34 jj

808343 hg 98 jy 87 df

857483 oi 67 yu 45 uu

Time taken: 0.124 seconds

hive> create table mergetab5 as select cid,cname,cemp,cbran from kk1 n JOIN kk4 b ON(n.cid=b.bid);

Ended Job = job\_201502090340\_0004

Moving data to: hdfs://localhost:8020/user/hive/warehouse/mergetab5

8 Rows loaded to hdfs://localhost:8020/tmp/hive-root/hive\_2015-02-09\_05-44-56\_055\_253960778282895251/-ext-10000

OK

Time taken: 19.425 seconds

hive> select \* from mergetab5;

OK

231233 tataconsultancyservices 343434 secunderabad

243233 wipro 234687 gfsbgfjhsbcks

343445 indian business machine 248290 sgahaa

423434 techmahindra 364783 ytgdygdd

432749 accenture 364873 tdtgiagdia

783467 perfectpincode 749232 iuidkahbca

808343 cognizanttechology 438024 yyieri

857483 infosys 676768 kbckbcccc