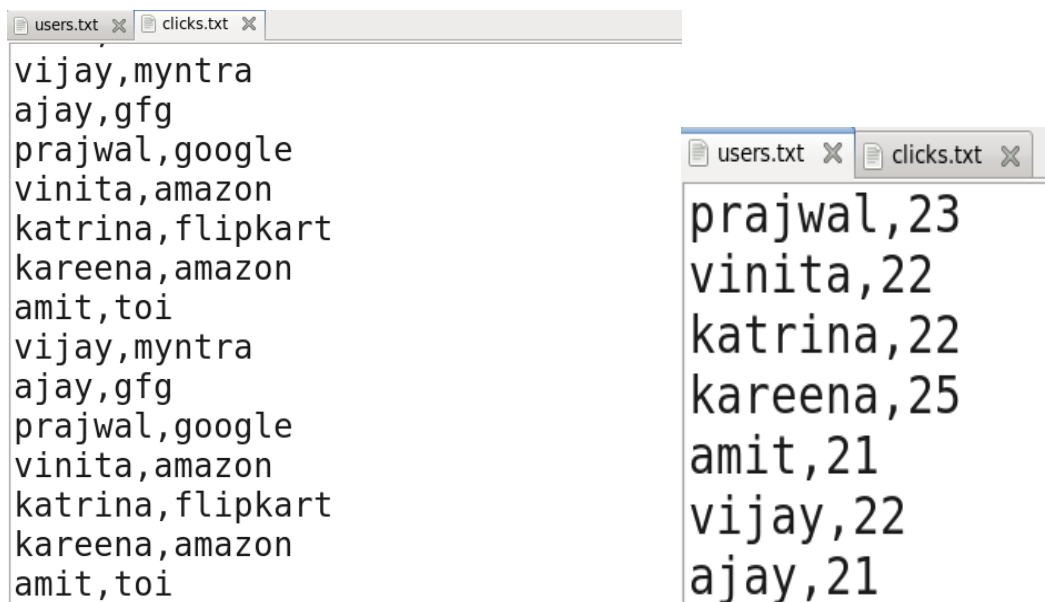


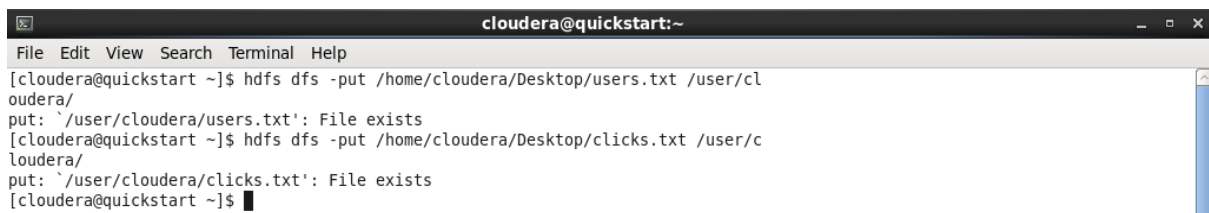
Program Number	
Roll Number	1546
Title of program	Pig 2, hive joins
Program	

create .txt files



The image shows two side-by-side text editors. The left editor, titled 'users.txt', contains a list of names and their associated companies: vijay,mynta; ajay,gfg; prajwal,google; vinita,amazon; katrina,flipkart; kareena,amazon; amit,toi; vijay,mynta; ajay,gfg; prajwal,google; vinita,amazon; katrina,flipkart; kareena,amazon; amit,toi. The right editor, titled 'clicks.txt', contains a list of names and their click counts: prajwal,23; vinita,22; katrina,22; kareena,25; amit,21; vijay,22; ajay,21.

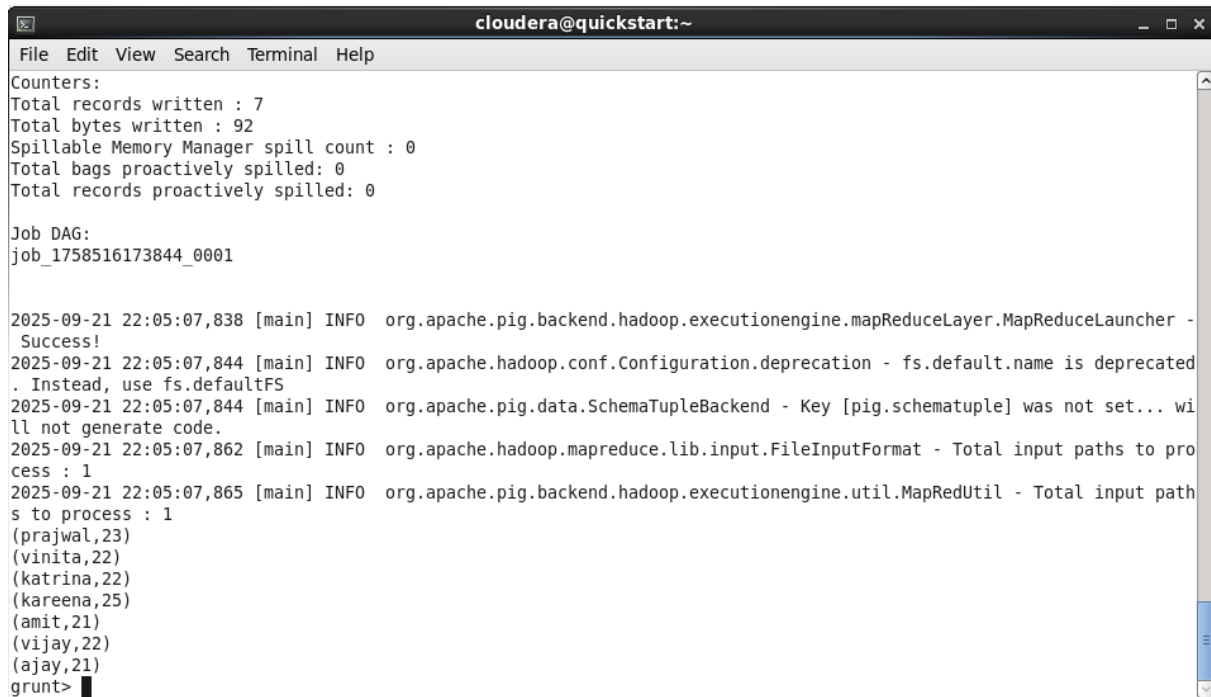
put files to cloud



The image shows a terminal window with the prompt 'cloudera@quickstart:~'. The user has entered the command 'hdfs dfs -put /home/cloudera/Desktop/users.txt /user/cloudera/' and the output is 'put: /user/cloudera/users.txt: File exists'. The user has then entered the command 'hdfs dfs -put /home/cloudera/Desktop/clicks.txt /user/cloudera/' and the output is 'put: /user/cloudera/clicks.txt: File exists'.

create tables and load data

```
grunt> users = load '/user/cloudera/users.txt' using PigStorage(',') as (name:chararray,age:int);
grunt> clicks = load '/user/cloudera/clicks.txt' using PigStorage(',') as (name:chararray,site:chararray)
|;
grunt> █
```



```
cloudera@quickstart:~
File Edit View Search Terminal Help
Counters:
Total records written : 7
Total bytes written : 92
Spillable Memory Manager spill count : 0
Total bags proactively spilled: 0
Total records proactively spilled: 0

Job DAG:
job_1758516173844_0001

2025-09-21 22:05:07,838 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher -
Success!
2025-09-21 22:05:07,844 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated
. Instead, use fs.defaultFS
2025-09-21 22:05:07,844 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... wi
ll not generate code.
2025-09-21 22:05:07,862 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to pro
cess : 1
2025-09-21 22:05:07,865 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input path
s to process : 1
(prajwal,23)
(vinita,22)
(katrina,22)
(kareena,25)
(amit,21)
(vijay,22)
(ajay,21)
grunt> █
```

natural join

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
Counters:  
Total records written : 7  
Total bytes written : 92  
Spillable Memory Manager spill count : 0  
Total bags proactively spilled: 0  
Total records proactively spilled: 0  
  
Job DAG:  
job_1758516173844_0001  
  
2025-09-21 22:05:07,838 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher -  
Success!  
2025-09-21 22:05:07,844 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated  
. Instead, use fs.defaultFS  
2025-09-21 22:05:07,844 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... wi  
ll not generate code.  
2025-09-21 22:05:07,862 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to pro  
cess : 1  
2025-09-21 22:05:07,865 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input path  
s to process : 1  
(prajwal,23)  
(vinita,22)  
(katrina,22)  
(kareena,25)  
(amit,21)  
(vijay,22)  
(ajay,21)  
grunt> join_user_click = JOIN users by name , clicks by name;  
2025-09-21 22:11:48,327 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input path  
s to process : 1  
(ajay,21,ajay,gfg)  
(ajay,21,ajay,gfg)  
(ajay,21,ajay,gfg)  
(ajay,21,ajay,gfg)  
(ajay,21,ajay,gfg)  
(amit,21,amit,toi)  
(amit,21,amit,toi)  
(amit,21,amit,toi)  
(amit,21,amit,toi)  
(vijay,22,vijay,myntra)  
(vijay,22,vijay,myntra)  
(vijay,22,vijay,myntra)  
(vijay,22,vijay,myntra)  
(vinita,22,vinita,amazon)  
(vinita,22,vinita,amazon)  
(vinita,22,vinita,amazon)  
(vinita,22,vinita,amazon)  
(kareena,25,kareena,amazon)  
(kareena,25,kareena,amazon)  
(kareena,25,kareena,amazon)  
(kareena,25,kareena,amazon)  
(katrina,22,katrina,flipkart)  
(katrina,22,katrina,flipkart)  
(katrina,22,katrina,flipkart)  
(katrina,22,katrina,flipkart)  
(prajwal,23,prajwal,google)  
(prajwal,23,prajwal,google)  
(prajwal,23,prajwal,google)  
(prajwal,23,prajwal,google)
```

Left join //for left =>left outer for right =>right //

```
2025-09-21 22:27:59,964 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:27:59,964 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:27:59,965 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:27:59,974 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:27:59,974 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1,ritesh,mumbai,3000,103,1,3510)
(1,ritesh,mumbai,3000,101,1,2020)
(2,rahul,chennai,4100,105,2,3710)
(2,rahul,chennai,4100,102,2,2410)
(3,shivam,mumbai,5400,106,3,1450)
(3,shivam,mumbai,5400,104,3,3100)
grunt> S
```

```
2025-09-21 22:27:59,964 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:27:59,964 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:27:59,965 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:27:59,974 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:27:59,974 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1,ritesh,mumbai,3000,103,1,3510)
(1,ritesh,mumbai,3000,101,1,2020)
(2,rahul,chennai,4100,105,2,3710)
(2,rahul,chennai,4100,102,2,2410)
(3,shivam,mumbai,5400,106,3,1450)
(3,shivam,mumbai,5400,104,3,3100)
grunt> left_join = JOIN cust by cid LEFT OUTER,orders by cid;
grunt> dump left_join;
```

```
2025-09-21 22:29:47,693 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:29:47,697 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:29:47,697 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:29:47,712 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:29:47,713 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1,ritesh,mumbai,3000,103,1,3510)
(1,ritesh,mumbai,3000,101,1,2020)
(2,rahul,chennai,4100,105,2,3710)
(2,rahul,chennai,4100,102,2,2410)
(3,shivam,mumbai,5400,106,3,1450)
(3,shivam,mumbai,5400,104,3,3100)
(4,rohit,delhi,3500,,)
(4,rohit,delhi,3500,,)
```

```
2025-09-21 22:29:47,693 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:29:47,697 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:29:47,697 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:29:47,712 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:29:47,713 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1,ritesh,mumbai,3000,103,1,3510)
(1,ritesh,mumbai,3000,101,1,2020)
(2,rahul,chennai,4100,105,2,3710)
(2,rahul,chennai,4100,102,2,2410)
(3,shivam,mumbai,5400,106,3,1450)
(3,shivam,mumbai,5400,104,3,3100)
(4,rohit,delhi,3500,,)
grunt> right_join = JOIN cust by cid RIGHT ,orders by cid;
grunt> dump right_join;
```

```
Job DAG:
job_1758516173844_0005
```

```
2025-09-21 22:33:11,240 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:33:11,240 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:33:11,241 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:33:11,246 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:33:11,246 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1,ritesh,mumbai,3000,103,1,3510)
(1,ritesh,mumbai,3000,101,1,2020)
(2,rahul,chennai,4100,105,2,3710)
(2,rahul,chennai,4100,102,2,2410)
(3,shivam,mumbai,5400,106,3,1450)
(3,shivam,mumbai,5400,104,3,3100)
(,,,108,5,2100)
(,,,107,5,3200)
```

```

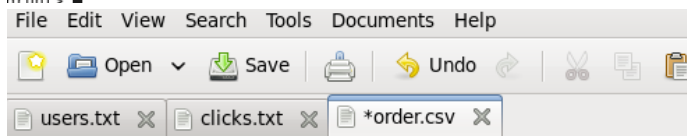
2025-09-21 22:33:11,240 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:33:11,240 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:33:11,241 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:33:11,246 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:33:11,246 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1,ritesh,mumbai,3000,103,1,3510)
(1,ritesh,mumbai,3000,101,1,2020)
(2,rahul,chennai,4100,105,2,3710)
(2,rahul,chennai,4100,102,2,2410)
(3,shivam,mumbai,5400,106,3,1450)
(3,shivam,mumbai,5400,104,3,3100)
(,,,108,5,2100)
(,,,107,5,3200)
grunt> full_join = JOIN cust by cid FULL OUTER ,orders by cid;
grunt> dump full_join;

```

```

2025-09-21 22:36:16,936 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:36:16,936 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:36:16,938 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:36:16,947 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:36:16,947 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1,ritesh,mumbai,3000,103,1,3510)
(1,ritesh,mumbai,3000,101,1,2020)
(2,rahul,chennai,4100,105,2,3710)
(2,rahul,chennai,4100,102,2,2410)
(3,shivam,mumbai,5400,106,3,1450)
(3,shivam,mumbai,5400,104,3,3100)
(4,rohit,delhi,3500,,)
(,,,108,5,2100)
(,,,107,5,3200)
grunt>

```



```

101,1,2020
102,2,2410
103,1,3510
104,3,3100
105,2,3710
106,3,1450
107,5,3200
108,5,2100S

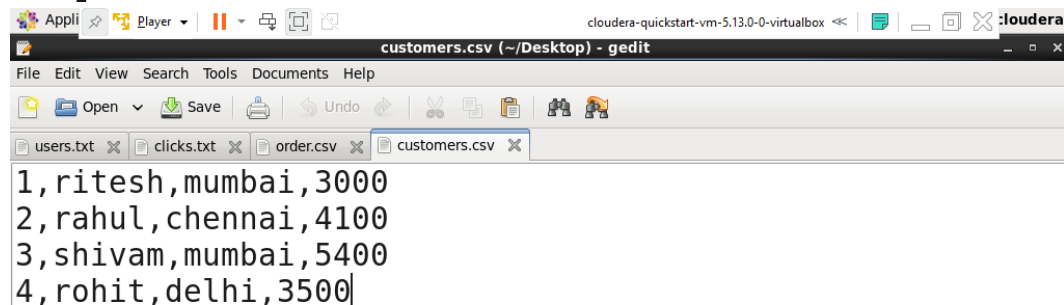
```

```

2025-09-21 22:36:16,936 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:36:16,936 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:36:16,938 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:36:16,947 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:36:16,947 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1,ritesh,mumbai,3000,103,1,3510)
(1,ritesh,mumbai,3000,101,1,2020)
(2,rahul,chennai,4100,105,2,3710)
(2,rahul,chennai,4100,102,2,2410)
(3,shivam,mumbai,5400,106,3,1450)
(3,shivam,mumbai,5400,104,3,3100)
(4,rohit,delhi,3500,,)
(,,,108,5,2100)
(,,,107,5,3200)

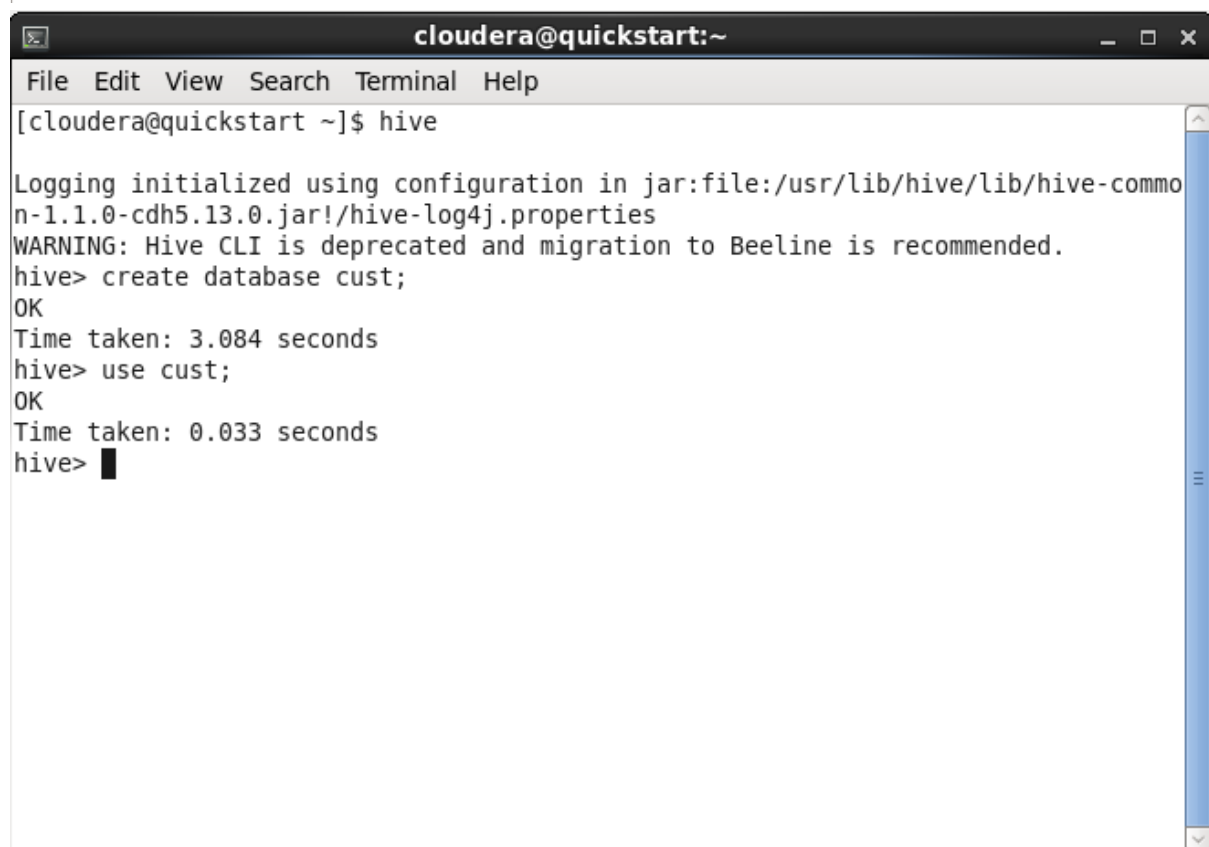
```

```
2025-09-21 22:45:29,806 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success
!
2025-09-21 22:45:29,809 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2025-09-21 22:45:29,809 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2025-09-21 22:45:29,814 [main] INFO org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2025-09-21 22:45:29,814 [main] INFO org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(1, {(1,ritesh,mumbai,3000)}, {(103,1,3510), (101,1,2020)})
(2, {(2,rahul,chennai,4100)}, {(105,2,3710), (102,2,2410)})
(3, {(3,shivam,mumbai,5400)}, {(106,3,1450), (104,3,3100)})
(4, {(4,rohit,delhi,3500)}, {})
(5, {}, {(108,5,2100), (107,5,3200)})
```



The screenshot shows a Gedit window titled 'customers.csv (~/Desktop) - gedit'. The window contains the following text:

```
1,ritesh,mumbai,3000
2,rahul,chennai,4100
3,shivam,mumbai,5400
4,rohit,delhi,3500
```



The screenshot shows a terminal window titled 'cloudera@quickstart:~'. The terminal output is as follows:

```
[cloudera@quickstart ~]$ hive

Logging initialized using configuration in jar:file:/usr/lib/hive/lib/hive-common-1.1.0-cdh5.13.0.jar!/hive-log4j.properties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> create database cust;
OK
Time taken: 3.084 seconds
hive> use cust;
OK
Time taken: 0.033 seconds
hive> █
```

```

File Edit View Search Terminal Help
[cloudera@quickstart ~]$ hive

Logging initialized using configuration in jar:file:/usr/lib/hive/lib/hive-commo
n-1.1.0-cdh5.13.0.jar!/hive-log4j.properties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> create database cust;
OK
Time taken: 3.084 seconds
hive> use cust;
OK
Time taken: 0.033 seconds
hive> create table customers (cid int,name String,cl float) row format delimited
fields terminated by ',' ;
OK
Time taken: 0.529 seconds
hive> create table cust (cid int,name String,city String,cl float) row format de
limited fields terminated by ',' ;
OK
Time taken: 0.055 seconds
hive>
> s terminated by ',' ;
>
>
>
> ;
hive> create table orders (oid int,cid int,amt float) row format delimited fields terminated by ',' ;
OK
Time taken: 0.056 seconds
hive> load data local inpath '/home/cloudera/Desktop/customers.csv' into cust;
FAILED: ParseException line 1:67 missing TABLE at 'cust' near '<EOF>'
hive> load data local inpath '/home/cloudera/Desktop/customers.csv' into table cust;
Loading data to table cust.cust
Table cust.cust stats: [numFiles=1, totalSize=82]
OK
Time taken: 0.568 seconds
hive>

hive> create table orders (oid int,cid int,amt float) row format delimited fields terminated by ',' ;
OK
Time taken: 0.056 seconds
hive> load data local inpath '/home/cloudera/Desktop/customers.csv' into cust;
FAILED: ParseException line 1:67 missing TABLE at 'cust' near '<EOF>'
hive> load data local inpath '/home/cloudera/Desktop/customers.csv' into table cust;
Loading data to table cust.cust
Table cust.cust stats: [numFiles=1, totalSize=82]
OK
Time taken: 0.568 seconds
hive> load data local inpath '/home/cloudera/Desktop/order.csv' into table orders;
Loading data to table cust.orders
Table cust.orders stats: [numFiles=1, totalSize=88]
OK
Time taken: 0.184 seconds
hive>

hive> select * from cust;
OK
1      ritesh  mumbai  3000.0
2      rahul   chennai  4100.0
3      shivam  mumbai  5400.0
4      rohit   delhi    3500.0
Time taken: 0.388 seconds, Fetched: 4 row(s)
hive> select * from orders;
OK
101     1      2020.0
102     2      2410.0
103     1      3510.0
104     3      3100.0
105     2      3710.0
106     3      1450.0
107     5      3200.0
108     5      2100.0
Time taken: 0.09 seconds, Fetched: 8 row(s)

```



```

hive> select c.name,o.amt from cust c join orders o on c.cid = o.cid ;
Query ID = cloudera_20250921230404_c80874f2-44bb-4273-92fa-fb50a61f3928
Total jobs = 1
Execution log at: /tmp/cloudera/cloudera_20250921230404_c80874f2-44bb-4273-92fa-fb50a61f3928.log
2025-09-21 11:04:16 Starting to launch local task to process map join; maximum memory = 129761280
2025-09-21 11:04:18 Dump the side-table for tag: 0 with group count: 4 into file: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-04-11_748_6029512692722399342-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile00--.hashtable
2025-09-21 11:04:18 Uploaded 1 File to: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-04-11_748_6029512692722399342-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile00--.hashtable (362 bytes)
2025-09-21 11:04:18 End of local task; Time Taken: 1.237 sec.
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1758516173844_0008, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1758516173844_0008/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1758516173844_0008
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2025-09-21 23:04:27,434 Stage-3 map = 0%, reduce = 0%

hive> select c.name,o.amt from cust c join orders o on c.cid = o.cid ;
Query ID = cloudera_20250921230404_c80874f2-44bb-4273-92fa-fb50a61f3928
Total jobs = 1
Execution log at: /tmp/cloudera/cloudera_20250921230404_c80874f2-44bb-4273-92fa-fb50a61f3928.log
2025-09-21 11:04:16 Starting to launch local task to process map join; maximum memory = 129761280
2025-09-21 11:04:18 Dump the side-table for tag: 0 with group count: 4 into file: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-04-11_748_6029512692722399342-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile00--.hashtable
2025-09-21 11:04:18 Uploaded 1 File to: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-04-11_748_6029512692722399342-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile00--.hashtable (362 bytes)
2025-09-21 11:04:18 End of local task; Time Taken: 1.237 sec.
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1758516173844_0008, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1758516173844_0008/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1758516173844_0008
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2025-09-21 23:04:27,434 Stage-3 map = 0%, reduce = 0%
2025-09-21 23:04:36,093 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 1.38 sec
MapReduce Total cumulative CPU time: 1 seconds 380 msec
Ended Job = job_1758516173844_0008
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 1.38 sec HDFS Read: 6434 HDFS Write: 82 SUCCESS
Total MapReduce CPU Time Spent: 1 seconds 380 msec
OK
ritesh 2020.0
rahul 2410.0
ritesh 3510.0
shivam 3100.0
rahul 3710.0
shivam 1450.0
Time taken: 25.45 seconds, Fetched: 6 row(s)

hive> select c.cid,c.name,o.amt from cust c join orders o on c.cid = o.cid ;
Query ID = cloudera_20250921230808_74c109be-f3bd-450c-91b0-21335347b3aa
Total jobs = 1
Execution log at: /tmp/cloudera/cloudera_20250921230808_74c109be-f3bd-450c-91b0-21335347b3aa.log
2025-09-21 11:08:39 Starting to launch local task to process map join; maximum memory = 129761280
2025-09-21 11:08:41 Dump the side-table for tag: 0 with group count: 4 into file: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-08-35_009_3564783417787990329-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile10--.hashtable
2025-09-21 11:08:41 Uploaded 1 File to: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-08-35_009_3564783417787990329-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile10--.hashtable (362 bytes)
2025-09-21 11:08:41 End of local task; Time Taken: 1.378 sec.
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1758516173844_0009, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1758516173844_0009/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1758516173844_0009
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2025-09-21 23:08:50,014 Stage-3 map = 0%, reduce = 0%
2025-09-21 23:08:57,599 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 1.23 sec
MapReduce Total cumulative CPU time: 1 seconds 230 msec
Ended Job = job_1758516173844_0009
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 1.23 sec HDFS Read: 6663 HDFS Write: 94 SUCCESS
Total MapReduce CPU Time Spent: 1 seconds 230 msec
OK
1      ritesh 2020.0
2      rahul 2410.0
1      ritesh 3510.0
3      shivam 3100.0
2      rahul 3710.0
3      shivam 1450.0
Time taken: 24.732 seconds, Fetched: 6 row(s)

```



```

hive> select c.cid,c.name,o.amt from cust c left outer join orders o on c.cid = o.cid ;
Query ID = cloudera_20250921230909_1ae51a44-e327-44f2-a6e9-a7593b1a5c80
Total jobs = 1
Execution log at: /tmp/cloudera/cloudera_20250921230909_1ae51a44-e327-44f2-a6e9-a7593b1a5c80.log
2025-09-21 11:09:43 Starting to launch local task to process map join; maximum memory = 129761280
2025-09-21 11:09:44 Dump the side-table for tag: 1 with group count: 4 into file: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-09-38_100_5822312310793320756-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile21--.hashtable
2025-09-21 11:09:44 Uploaded 1 File to: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-09-38_100_5822312310793320756-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile21--.hashtable (388 bytes)
2025-09-21 11:09:44 End of local task; Time Taken: 0.952 sec.
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1758516173844_0010, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1758516173844_0010/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1758516173844_0010
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2025-09-21 23:09:52,651 Stage-3 map = 0%, reduce = 0%
2025-09-21 23:10:00,346 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 1.02 sec
MapReduce Total cumulative CPU time: 1 seconds 20 msec
Ended Job = job_1758516173844_0010
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 1.02 sec HDFS Read: 6522 HDFS Write: 105 SUCCESS
Total MapReduce CPU Time Spent: 1 seconds 20 msec
OK
1      ritesh  2020.0
1      ritesh  3510.0
2      rahul   2410.0
2      rahul   3710.0
3      shivam  3100.0
3      shivam  1450.0
4      rohit   NULL
Time taken: 23.309 seconds, Fetched: 7 row(s)

hive> select c.cid,c.name,o.amt from cust c right outer join orders o on c.cid = o.cid ;
Query ID = cloudera_20250921231010_8273691b-dc40-433e-80d4-567068cf5d55
Total jobs = 1
Execution log at: /tmp/cloudera/cloudera_20250921231010_8273691b-dc40-433e-80d4-567068cf5d55.log
2025-09-21 11:10:41 Starting to launch local task to process map join; maximum memory = 129761280
2025-09-21 11:10:42 Dump the side-table for tag: 0 with group count: 4 into file: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-10-37_149_2243051792033244870-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile30--.hashtable
2025-09-21 11:10:42 Uploaded 1 File to: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-10-37_149_2243051792033244870-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile30--.hashtable (362 bytes)
2025-09-21 11:10:42 End of local task; Time Taken: 1.132 sec.
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1758516173844_0011, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1758516173844_0011/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1758516173844_0011
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2025-09-21 23:10:51,000 Stage-3 map = 0%, reduce = 0%
2025-09-21 23:10:57,451 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 1.01 sec
MapReduce Total cumulative CPU time: 1 seconds 10 msec
Ended Job = job_1758516173844_0011
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 1.01 sec HDFS Read: 6495 HDFS Write: 120 SUCCESS
Total MapReduce CPU Time Spent: 1 seconds 10 msec
OK
1      ritesh  2020.0
2      rahul   2410.0
1      ritesh  3510.0
3      shivam  3100.0
2      rahul   3710.0
3      shivam  1450.0
NULL   NULL    3200.0
NULL   NULL    2100.0
Time taken: 22.414 seconds, Fetched: 8 row(s)

```

```

hive> select c.cid,c.name,o.amt from cust c left outer join orders o on c.cid = o.cid ;
Query ID = cloudera_20250921230909_1ae51a44-e327-44f2-a6e9-a7593b1a5c80
Total jobs = 1
Execution log at: /tmp/cloudera/cloudera_20250921230909_1ae51a44-e327-44f2-a6e9-a7593b1a5c80.log
2025-09-21 11:09:43 Starting to launch local task to process map join; maximum memory = 129761280
2025-09-21 11:09:44 Dump the side-table for tag: 1 with group count: 4 into file: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-09-38_100_5822312310793320756-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile21--.hashtable
2025-09-21 11:09:44 Uploaded 1 File to: file:/tmp/cloudera/d6815759-8b11-4915-b311-20338fb7773a/hive_2025-09-21_23-09-38_100_5822312310793320756-1/-local-10003/HashTable-Stage-3/MapJoin-mapfile21--.hashtable (388 bytes)
2025-09-21 11:09:44 End of local task; Time Taken: 0.952 sec.
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1758516173844_0010, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1758516173844_0010/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1758516173844_0010
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2025-09-21 23:09:52,651 Stage-3 map = 0%, reduce = 0%
2025-09-21 23:10:00,346 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 1.02 sec
MapReduce Total cumulative CPU time: 1 seconds 20 msec
Ended Job = job_1758516173844_0010
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 1.02 sec HDFS Read: 6522 HDFS Write: 105 SUCCESS
Total MapReduce CPU Time Spent: 1 seconds 20 msec
OK
1      ritesh  2020.0
1      ritesh  3510.0
2      rahul   2410.0
2      rahul   3710.0
3      shivam  3100.0
3      shivam  1450.0
4      rohit   NULL
Time taken: 23.309 seconds, Fetched: 7 row(s)

hive> select c.cid,c.name,o.amt from cust c full outer join orders o on c.cid = o.cid ;
Query ID = cloudera_20250921231313_ad9305b6-f8a3-4428-a698-1c49f4677fea
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_1758516173844_0012, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1758516173844_0012/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1758516173844_0012
Hadoop job information for Stage-1: number of mappers: 2; number of reducers: 1
2025-09-21 23:13:28,612 Stage-1 map = 0%, reduce = 0%
2025-09-21 23:13:41,805 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.99 sec
2025-09-21 23:13:51,363 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.04 sec
MapReduce Total cumulative CPU time: 3 seconds 40 msec
Ended Job = job_1758516173844_0012
MapReduce Jobs Launched:
Stage-Stage-1: Map: 2 Reduce: 1 Cumulative CPU: 3.04 sec HDFS Read: 13153 HDFS Write: 131 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 40 msec
OK
1      ritesh  3510.0
1      ritesh  2020.0
2      rahul   3710.0
2      rahul   2410.0
3      shivam  1450.0
3      shivam  3100.0
4      rohit   NULL
NULL    NULL    2100.0
NULL    NULL    3200.0
Time taken: 32.332 seconds, Fetched: 9 row(s)

```



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```
[cloudera@quickstart ~]$ spark
bash: spark: command not found
[cloudera@quickstart ~]$ spark-shell
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel).
Welcome to
```



```
Using Scala version 2.10.5 (Java HotSpot(TM) 64-Bit Server VM, Java 1.7.0_67)
Type in expressions to have them evaluated.
Type :help for more information.
25/09/21 23:19:05 WARN util.Utils: Your hostname, quickstart.cloudera resolves to
a loopback address: 127.0.0.1; using 192.168.75.128 instead (on interface eth5)
25/09/21 23:19:05 WARN util.Utils: Set SPARK_LOCAL_IP if you need to bind to another
address
Spark context available as sc (master = yarn-client, app id = application_175851
6173844_0013).
25/09/21 23:19:38 WARN metastore.ObjectStore: Version information not found in m
etastore. hive.metastore.schema.validation is not enabled so recording the sch
ema version 1.1.0-cdh5.13.0
25/09/21 23:19:38 WARN metastore.ObjectStore: Failed to get database default, re
turning NoSuchObjectException
SQL context available as sqlContext.
```

```
scala> clrscr
<console>:26: error: not found: value clrscr
      clrscr
      ^
```

```
scala> clrscr;
<console>:26: error: not found: value clrscr
      clrscr;
      ^
```

```
scala> val data = Seq("good morning","good morning everyone","good morning all")
data: Seq[String] = List(good morning, good morning everyone, good morning all)
```

```
scala> var myRdd = sc.parallelize(data)
```

```
scala> val data = Seq("good morning","good morning everyone","good morning all")
data: Seq[String] = List(good morning, good morning everyone, good morning all)
```

```
scala> var myRdd = sc.parallelize(data)
myRdd: org.apache.spark.rdd.RDD[String] = ParallelCollectionRDD[0] at parallelize at <console>:29
```

```
scala> val data = Seq("good morning","good morning everyone","good morning all")
data: Seq[String] = List(good morning, good morning everyone, good morning all)
```

```
scala> var myRdd = sc.parallelize(data)
myRdd: org.apache.spark.rdd.RDD[String] = ParallelCollectionRDD[0] at parallelize at <console>:29
```

```
scala> myRdd.collect.foreach(println)
[Stage 0:> (0 + 0) / 2]25/09/21 23:33:13 WARN cluster.YarnScheduler:
Initial job has not accepted any resources; check your cluster UI to ensure that workers are registered and have sufficient
resources
good morning
good morning everyone
good morning all
```

```
scala> val data = Seq("good morning","good morning everyone","good morning all")
data: Seq[String] = List(good morning, good morning everyone, good morning all)
```

```
scala> var myRdd = sc.parallelize(data)
myRdd: org.apache.spark.rdd.RDD[String] = ParallelCollectionRDD[0] at parallelize at <console>:29
```

```
scala> myRdd.collect.foreach(println)
[Stage 0:> (0 + 0) / 2]25/09/21 23:33:13 WARN cluster.YarnScheduler:
Initial job has not accepted any resources; check your cluster UI to ensure that workers are registered and have sufficient
resources
good morning
good morning everyone
good morning all
```

```
scala> myRdd.take(2).foreach(println)
good morning
good morning everyone
```

```

scala> val data = Seq("good morning","good morning everyone","good morning all")
data: Seq[String] = List(good morning, good morning everyone, good morning all)

scala> var myRdd = sc.parallelize(data)
myRdd: org.apache.spark.rdd.RDD[String] = ParallelCollectionRDD[0] at parallelize at <console>:29

scala> myRdd.collect.foreach(println)
[Stage 0:> (0 + 0) / 2]25/09/21 23:33:13 WARN cluster.YarnScheduler:
Initial job has not accepted any resources; check your cluster UI to ensure that workers are registered and have sufficient
resources
good morning
good morning everyone
good morning all

scala> myRdd.take(2).foreach(println)
good morning
good morning everyone

scala> myRdd.toDF().show()
25/09/21 23:35:57 WARN spark.ExecutorAllocationManager: Unable to reach the cluster manager to kill executor 2!
+-----+
|          _1|
+-----+
|    good morning|
|good morning ever...|
|    good morning all|
+-----+

scala> myRdd.take(2).foreach(println)
good morning
good morning everyone

scala> myRdd.toDF().show()
25/09/21 23:35:57 WARN spark.ExecutorAllocationManager: Unable to reach the cluster manager to kill executor 2!
+-----+
|          _1|
+-----+
|    good morning|
|good morning ever...|
|    good morning all|
+-----+

scala> var wordsRdd = myRdd.flatMap(f=>f.split(" "))
<console>:1: error: unclosed string literal
      var wordsRdd = myRdd.flatMap(f=>f.split(" "))
                                           ^

scala> var wordsRdd = myRdd.flatMap(f=>f.split(" "))
wordsRdd: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[3] at flatMap at <console>:31

scala> wordsRdd.collect.foreach(println)
good
morning
good
morning
everyone
good
morning
all

scala> var wordsRdd = myRdd.flatMap(f=>f.split(" "))
<console>:1: error: unclosed string literal
      var wordsRdd = myRdd.flatMap(f=>f.split(" "))
                                           ^

scala> var wordsRdd = myRdd.flatMap(f=>f.split(" "))
wordsRdd: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[3] at flatMap at <console>:31

scala> wordsRdd.collect.foreach(println)
good
morning
good
morning
everyone
good
morning
all

scala> val mapRdd = wordsRdd.Map(word=>(word,1))
<console>:33: error: value Map is not a member of org.apache.spark.rdd.RDD[String]
      val mapRdd = wordsRdd.Map(word=>(word,1))
                             ^

scala> val mapRdd = wordsRdd.map(word=>(word,1))
mapRdd: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[4] at map at <console>:33

```

```
scala> val mapRdd = wordsRdd.map(word=>(word,1))
mapRdd: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[4] at map at <console>:33
```

```
scala> mapRdd.collect.foreach(println)
(good,1)
(morning,1)
(good,1)
(morning,1)
(everyone,1)
(good,1)
(morning,1)
(all,1)
```

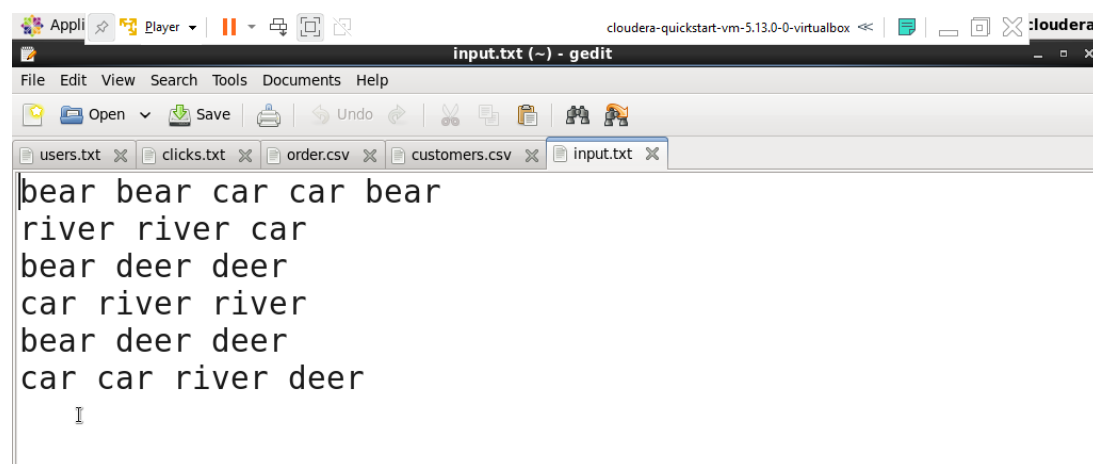
```
scala> val mapRdd = wordsRdd.Map(word=>(word,1))
<console>:33: error: value Map is not a member of org.apache.spark.rdd.RDD[String]
      val mapRdd = wordsRdd.Map(word=>(word,1))
                              ^
```

```
scala> val mapRdd = wordsRdd.map(word=>(word,1))
mapRdd: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[4] at map at <console>:33
```

```
scala> mapRdd.collect.foreach(println)
(good,1)
(morning,1)
(good,1)
(morning,1)
(everyone,1)
(good,1)
(morning,1)
(all,1)
```

```
scala> val reduceRdd = mapRdd.reduceByKey(_+_ )
reduceRdd: org.apache.spark.rdd.RDD[(String, Int)] = ShuffledRDD[5] at reduceByKey at <console>:35
```

```
scala> reduceRdd.collect.foreach(println)
(morning,3)
(all,1)
(good,3)
(everyone,1)
```



```
put: `/home/cloudera/Desktop/inp.csv': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -put "/home/cloudera/Desktop/inp.csv" "/user/cloudera/"
[cloudera@quickstart ~]$
```

```
scala> val txtRdd = sc.textFile("/user/cloudera/inp.csv")
txtRdd: org.apache.spark.rdd.RDD[String] = /user/cloudera/inp.csv MapPartitionsRDD[11] at textFile at <console>:27
```

```
scala> txtRdd.collect.foreach(println)
bear bear car car bear
river river car
bear deer deer
car river river
bear deer deer
car car river deer
```

```
scala> var txtwordsRdd = txtRdd.flatMap(f=>f.split(" "))
txtwordsRdd: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[13] at flatMap at <console>:29
```

```
scala> txtwordsRdd.collect.foreach(println)
bear
bear
car
car
bear
river
river
car
bear
deer
deer
car
river
river
bear
deer
deer
car
car
river
deer
```

```
scala> val txtRdd = sc.textFile("/user/cloudera/inp.csv")
txtRdd: org.apache.spark.rdd.RDD[String] = /user/cloudera/inp.csv MapPartitionsRDD[11] at textFile at <console>:27
```

```
scala> txtRdd.collect.foreach(println)
bear bear car car bear
river river car
bear deer deer
car river river
bear deer deer
car car river deer
```

|

```
scala> val txtmapRdd = txtwordsRdd.map(word=>(word,1))
txtmapRdd: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[14] at map at <console>:31
```

```
scala> txtmapRdd.collect.foreach(println)
(bear,1)
(bear,1)
(car,1)
(car,1)
(bear,1)
(river,1)
(river,1)
(car,1)
(bear,1)
(deer,1)
(deer,1)
(car,1)
(river,1)
(river,1)
(bear,1)
(deer,1)
(deer,1)
(car,1)
(car,1)
(river,1)
(deer,1)
(,1)
```

```
scala> val txtreduceRdd = txtmapRdd.reduceByKey(_+_ )
txtreduceRdd: org.apache.spark.rdd.RDD[(String, Int)] = ShuffledRDD[15] at reduceByKey at <console>:33
```

```
scala> txtreduceRdd.collect.foreach(println)
(bear,5)
(car,6)
(deer,5)
(,1)
(river,5)
```

```
scala> txtmapRdd.collect.foreach(println)
(bear,1)
(bear,1)
(car,1)
(car,1)
(bear,1)
(river,1)
(river,1)
(car,1)
(bear,1)
(deer,1)
(deer,1)
(car,1)
(river,1)
(river,1)
(bear,1)
(deer,1)
(deer,1)
(car,1)
(car,1)
(river,1)
(deer,1)
(,1)

scala> val txtreduceRdd = txtmapRdd.reduceByKey(_+_ )
txtreduceRdd: org.apache.spark.rdd.RDD[(String, Int)] = ShuffledRDD[15] at reduceByKey at <console>:33

scala> txtreduceRdd.collect.foreach(println)
(bear,5)
(car,6)
(deer,5)
(,1)
(river,5)
```

```
cloudera@quickstart:~
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scala> val txtmapRdd = txtwordsRdd.map(word=>(word,1))
txtmapRdd: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[14] at map at <console>:31

scala> txtmapRdd.collect.foreach(println)
(bear,1)
(bear,1)
(car,1)
(car,1)
(bear,1)
(river,1)
(river,1)
(car,1)
(bear,1)
(deer,1)
(deer,1)
(car,1)
(river,1)
(river,1)
(bear,1)
(deer,1)
(deer,1)
(car,1)
(car,1)
(river,1)
(deer,1)
(,1)

scala> val txtreduceRdd = txtmapRdd.reduceByKey(_+_ )
txtreduceRdd: org.apache.spark.rdd.RDD[(String, Int)] = ShuffledRDD[15] at reduceByKey at <console>:33

scala> txtreduceRdd.collect.foreach(println)
(bear,5)
(car,6)
(deer,5)
(,1)
(river,5)
```

PIG Joins


```
[cloudera@quickstart ~]$ hive
```

```
Logging initialized using configuration in jar:file:/usr/lib/hive/lib/hive-common-1.1.0-cdh5.13.0.jar!/hive-log4j.properties
```

```
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
```

```
hive> create database cust;
```

```
OK
```

```
Time taken: 4.983 seconds
```

```
hive> create table customers (cid int, name String, city String, cl float) row format delimited fields terminated by ',';
```

```
OK
```

```
Time taken: 1.485 seconds
```

```
hive> create table orders (oid int, cid int, amt float) row format delimited fields terminated by ',';
```

```
OK
```

```
Time taken: 0.225 seconds
```

```
hive> load data local inpath '/home/cloudera/Desktop/customers.csv' into table customers;
```

```
Loading data to table default.customers
```

```
Table default.customers stats: [numFiles=1, totalSize=79]
```

```
OK
```

```
Time taken: 2.726 seconds
```

```
hive> load data local inpath '/home/cloudera/Desktop/orders.csv' into table orders;
```

```
Loading data to table default.orders
```

```
Table default.orders stats: [numFiles=1, totalSize=132]
```

```
OK
```

```
Time taken: 0.577 seconds
```

```
hive> select * from customers;
```

```
OK
```

1	Deep	Bandra	20000.0
2	Om	Delhi	30000.0
3	Soham	Mumbai	20000.0
4	Tejas	Mumbai	15000.0

```
Time taken: 2.346 seconds, Fetched: 4 row(s)
```

```
hive> select * from orders;
```

```
OK
```

101	1	2220.0
102	2	3200.0
103	1	2220.0
104	2	3200.0
105	3	2220.0
106	2	3200.0
107	1	2220.0
108	5	3200.0
109	3	2220.0
110	5	3200.0
111	1	2220.0
112	3	5200.0

```
Time taken: 0.208 seconds. Fetched: 12 row(s)
```

```
hive> select c.name, o.amt from customers c join orders o on c.cid=o.cid;
```

```
Query ID = cloudera_20250811053232_b792a039-e8c6-41e7-b931-69e3adbcac18
```

```
Total jobs = 1
```

```
Execution log at: /tmp/cloudera/cloudera_20250811053232_b792a039-e8c6-41e7-b931-69e3adbcac18.log
```

Deep	2220.0
Om	3200.0
Deep	2220.0
Om	3200.0
Soham	2220.0
Om	3200.0
Deep	2220.0
Soham	2220.0
Deep	2220.0
Soham	5200.0

```
hive> select c.cid,c.name,o.amt from customers c left outer join orders o on c.c
id=o.cid;
```

Query ID = cloudera_20250811053636_deed6e8d-b3af-4238-9630-c48ab9014634

OK

1	Deep	2220.0
1	Deep	2220.0
1	Deep	2220.0
1	Deep	2220.0
2	Om	3200.0
2	Om	3200.0
2	Om	3200.0
3	Soham	2220.0
3	Soham	2220.0
3	Soham	5200.0
4	Tejas	NULL

```
hive> select c.cid,c.name,o.amt from customers c full outer join orders o on c.c
id=o.cid;
```

Query ID = cloudera_20250811054141_cb0691dd-d35d-4732-b106-ad2a07fb96f5

OK

1	Deep	2220.0
1	Deep	2220.0
1	Deep	2220.0
1	Deep	2220.0
2	Om	3200.0
2	Om	3200.0
2	Om	3200.0
3	Soham	5200.0
3	Soham	2220.0
3	Soham	2220.0
4	Tejas	NULL
NULL	NULL	3200.0
NULL	NULL	3200.0