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Top Hive Commands with Examples in HQL

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In this blog post, let's discuss top Hive commands with examples.

What is Hive?

Apache Hive is a Data warehouse system which is built to work on Hadoop. It is used to querying and managing large datasets residing in distributed storage. Before becoming a open source project of Apache Hadoop, Hive was originated in Facebook. It provides a mechanism to project structure onto the data in Hadoop and to query that data using a SQL-like language called HiveQL (HQL).

Hive is used because the tables in Hive are similar to tables in a relational database. If you are familiar with SQL, it's a cakewalk. Many users can simultaneously query the data using Hive-QL.

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What is HQL?

Hive defines a simple SQL-like query language to querying and managing large datasets called Hive-QL (HQL). It's easy to use if you're familiar with SQL Language. Hive allows programmers who are familiar with the language to write the custom MapReduce framework to perform more sophisticated analysis.

Uses of Hive:

1. The Apache Hive distributed storage.
2. Hive provides tools to enable easy data extract/transform/load (ETL)
3. It provides the structure on a variety of data formats.
4. By using Hive, we can access files stored in Hadoop Distributed File System (HDFS is used to querying and managing large datasets residing in) or in other data storage systems such as Apache HBase.

Limitations of Hive:

- Hive is not designed for Online transaction processing (OLTP), it is only used for the Online Analytical Processing.
- Hive supports overwriting or apprehending data, but not updates and deletes.
- In Hive, sub queries are not supported.

Why Hive is used inspite of Pig?

The following are the reasons why Hive is used in spite of Pig's availability:

- Hive-QL is a declarative language line SQL, PigLatin is a data flow language.
- Pig: a data-flow language and environment for exploring very large datasets.
- Hive: a distributed data warehouse.

Components of Hive:

Metastore :

Hive stores the schema of the Hive tables in a Hive Metastore. Metastore is used to hold all the information about the tables and partitions that are in the warehouse. By default, the <https://www.edureka.co/blog/hive-commands-with-examples>

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[Nominate Now](#)**SerDe :**

Serializer, Deserializer gives instructions to hive on how to process a record.

Hive Commands :**Data Definition Language (DDL)**

DDL statements are used to build and modify the tables and other objects in the database.

Example :

CREATE, DROP, TRUNCATE, ALTER, SHOW, DESCRIBE Statements.

Go to Hive shell by giving the command `sudo hive` and enter the command '`create database<data base name>`' to create the new database in the Hive.

```
hive> create database retail;
OK
Time taken: 5.275 seconds
hive>
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/201.png>)

To list out the databases in Hive warehouse, enter the command '`show databases`'.

```
hive> show databases;
OK
default
retail
Time taken: 0.228 seconds
hive>
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/21-1.png>)

The database creates in a default location of the Hive warehouse. In Cloudera, Hive database store in a `/user/hive/warehouse`.

Name	Type	Size	Replication	Block Size	Modification Time	Permission	Owner	Group
hi	dir				2014-02-28 19:35	rwxr-xr-x	root	supergroup
h15	dir				2014-02-28 19:35	rwxr-xr-x	root	supergroup
hive_test_db	dir				2014-02-21 20:51	rwxr-xr-x	cloudera	supergroup
retail.db	dir				2014-02-28 19:59	rwxr-xr-x	root	supergroup
test	dir				2014-02-27 18:00	rwxr-xr-x	root	supergroup
testing	dir				2014-02-27 16:28	rwxr-xr-x	root	supergroup

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/22-1.png>)

The command to use the database is `USE <data base name>`

```
hive> use retail;
OK
Time taken: 0.023 seconds
hive>
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/23-1.png>)

Copy the input data to HDFS from local by using the `copy From Local` command.

```
txns1.txt
00000000,06-26-2011,4007024,040.33,Exercise & Fitness,Cardio Machine Accessories,Clarksville,Tennessee,credit
00000001,05-26-2011,4006742,198.44,Exercise & Fitness,Weightlifting Gloves,Long Beach,California,credit
00000002,06-01-2011,4009775,005.58,Exercise & Fitness,Weightlifting Machine Accessories,Anaheim,California,credit
00000003,06-05-2011,4002199,198.19,Gymnastics,Gymnastics Rings,Milwaukee,Wisconsin,credit
00000004,12-17-2011,4002613,098.81,Team Sports,Field Hockey,Nashville ,Tennessee,credit
00000005,02-14-2011,4007591,193.63,Outdoor Recreation,Camping & Backpacking & Hiking,Chicago,Illinois,credit
00000006,10-28-2011,4002190,027.89,Puzzles,Jigsaw Puzzles,Charleston,South Carolina,credit
00000007,07-14-2011,4002964,096.01,Outdoor Play Equipment,Sandboxes,Columbus,Ohio,credit
00000008,01-17-2011,4007361,010.44,Winter Sports,Snowmobiling,Des Moines,Iowa,credit
00000009,05-17-2011,4004798,152.46,Jumping,Bungee Jumping,St. Petersburg,Florida,credit
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/24-1.png>)

```
cloudera@cloudera-vm:~$ hadoop dfs -copyFromLocal Desktop/blog/txns1.txt hdfs:/
cloudera@cloudera-vm:~$
```

When we create a table in hive, it creates in the default location of the hive warehouse. – `/user/hive/warehouse`, after creation of the table we can move the data from HDFS to hive table.

The following command creates a table with in location of `/user/hive/warehouse/retail.db`

Note : retail.db is the database created in the Hive warehouse.

```
hive> create table txnsrecords(txno INT, txdate STRING, custno INT, amount DOUBLE, category STRING, product STRING, city STRING, state STRING, spendby STRING) row format delimited fields terminated by ',' stored as textfile;
OK
Time taken: 1.163 seconds
hive>
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/26-1.png>)

Describe provides information about the schema of the table.

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```

txnno    int
txndate  string
custno   int
amount   double
category string
product  string
city     string
state    string
spendby  string
Time taken: 0.122 seconds
hive>

```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/27-1.png>)

Data Manipulation Language (DML)

DML statements are used to retrieve, store, modify, delete, insert and update data in the database.

Example :

LOAD, INSERT Statements.

Syntax :

LOAD data <LOCAL> inpath <file path> into table [tablename]

The Load operation is used to move the data into corresponding Hive table. If the keyword **local** is specified, then in the load command will give the local file system path. If the keyword **local** is not specified we have to use the HDFS path of the file.

```

hive> LOAD DATA INPATH '/txns1.txt' OVERWRITE INTO TABLE txnrecords;
Loading data to table retail.txnrecords
Deleted hdfs://localhost/user/hive/warehouse/retail.db/txnrecords
OK
Time taken: 0.263 seconds
hive>

```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/28-1.png>)

The screenshot shows a web browser window with the address bar displaying 'HDFS://user/hive/warehouse/r...'. Below the address bar, the file path is highlighted: 'file:/user/hive/warehouse/retail.db/txnrecords/txns1.txt'. The 'Go' button is visible. Below the address bar, there are links for 'Go back to dir listing', 'Advanced view/download options', and 'View Next chunk'. The main content area shows a list of data records, including transaction numbers, dates, amounts, and categories.

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/29-1.png>)

Here are some examples for the LOAD data LOCAL command

```

hive> create table customer(custno string, firstname string, lastname string, age int,profession string) row format delimited
fields terminated by ',';
OK
Time taken: 0.102 seconds
hive>

```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/30-1.png>)

```

hive> load data local inpath '/home/cloudera/Desktop/blog/custs' into table customer;
Copying data from file:/home/cloudera/Desktop/blog/custs
Copying file: file:/home/cloudera/Desktop/blog/custs
Loading data to table retail.customer
OK
Time taken: 0.227 seconds
hive>

```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/31-1.png>)

After loading the data into the Hive table we can apply the Data Manipulation Statements or aggregate functions retrieve the data.

Example to count number of records:

Count aggregate function is used count the total number of the records in a table.

```

hive> select count(*) from txnrecords;
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_201402270420_0005, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201402270420_0005
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201402270420_0005
2014-02-28 20:02:41,231 Stage-1 map = 0%, reduce = 0%
2014-02-28 20:02:48,293 Stage-1 map = 50%, reduce = 0%
2014-02-28 20:02:49,309 Stage-1 map = 100%, reduce = 0%
2014-02-28 20:02:55,350 Stage-1 map = 100%, reduce = 33%
2014-02-28 20:02:56,367 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201402270420_0005
OK
50000

```

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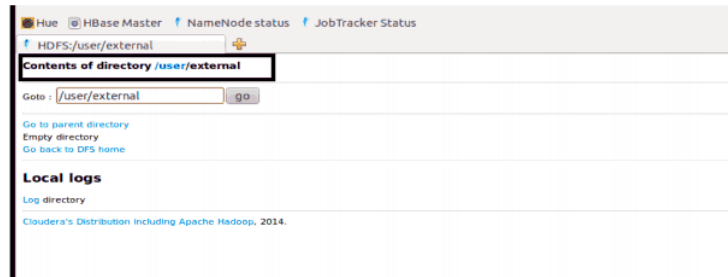
(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/32-1.png>)

'create external' Table :

The **create external** keyword is used to create a table and provides a location where the table will create, so that Hive does not use a default location for this table. An **EXTERNAL** table points to any HDFS location for its storage, rather than default storage.

```
hive> create external table example_customer(custno string, firstname string, lastname string, age int, profession string) row
format delimited fields terminated by ',' LOCATION '/user/external';
OK
Time taken: 0.059 seconds
hive>
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/33-1.png>)



(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/34-1.png>)

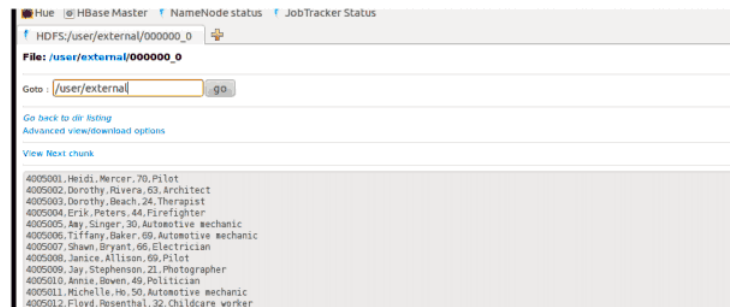
Insert Command:

The **insert** command is used to load the data Hive table. Inserts can be done to a table or a partition.

- INSERT OVERWRITE is used to overwrite the existing data in the table or partition.
- INSERT INTO is used to append the data into existing data in a table. (Note: INSERT INTO syntax is work from the version 0.8)

```
hive> from customer cus insert overwrite table example_customer select cus.custno,cus.firstname,cus.lastname,cus.age,cus.profe
ssion;
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_201402270420_0007, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201402270420_0007
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201402270420_0007
2014-02-28 20:40:39,866 Stage-1 map = 0%, reduce = 0%
2014-02-28 20:40:41,871 Stage-1 map = 100%, reduce = 0%
2014-02-28 20:40:42,876 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201402270420_0007
Loading data to table retail.example_customer
Deleted hdfs://localhost/user/external
Table retail.example_customer stats: [num_partitions: 0, num_files: 0, num_rows: 0, total_size: 0]
9999 Rows loaded to example_customer
OK
Time taken: 5.786 seconds
hive>
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/35-1.png>)



(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/36-1.png>)

Example for 'Partitioned By' and 'Clustered By' Command :

'Partitioned by' is used to divided the table into the Partition and can be divided in to buckets by using the 'Clustered By' command.

```
hive> create table txnrecsByCat(txnno INT, txndate STRING, custno INT, amount DOUBLE, product STRING, city STRING, state STRING
, spendby STRING) partitioned by (category STRING) clustered by (state) INTO 10 buckets row format delimited fields terminated
by ',' stored as textfile;
OK
Time taken: 0.101 seconds
hive>
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/37-1.png>)

```
hive> from txnrecords txn INSERT OVERWRITE TABLE record PARTITION(category) select txn.txnno,txn.txndate,txn.custno,txn.amount,
txn.product,txn.city,txn.state,txn.spendby, txn.category;
FAILED: Error in semantic analysis: Dynamic partition strict mode requires at least one static partition column. To turn this
off set hive.exec.dynamic.partition.mode=nonstrict
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/38-1.png>)

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maurer/) at dresshead website (<http://www.dresshead.com>). So we need to set the following parameters in Hive shell.

set hive.exec.dynamic.partition=true;

To enable dynamic partitions, by default, it's false

set hive.exec.dynamic.partition.mode=nonstrict;

```
hive> set hive.exec.dynamic.partition.mode=nonstrict;
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/39-1.png>)

```
hive> set hive.exec.dynamic.partition=true;
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/40-1.png>)

```
hive> from txnrecords txn INSERT OVERWRITE TABLE record PARTITION(category)select txn.txmno,txn.txndate,txn.custno,txn.amount,
txn.product,txn.city,txn.state,txn.spendby, txn.category;
Total MapReduce jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 10
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_201402270420_0006, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201402270420_0006
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201402270420_0006
2014-02-28 20:18:22,243 Stage-1 map = 0%, reduce = 0%
2014-02-28 20:18:29,289 Stage-1 map = 100%, reduce = 0%
2014-02-28 20:18:39,352 Stage-1 map = 100%, reduce = 10%
2014-02-28 20:18:40,360 Stage-1 map = 100%, reduce = 20%
2014-02-28 20:18:49,412 Stage-1 map = 100%, reduce = 40%
2014-02-28 20:18:50,456 Stage-1 map = 100%, reduce = 50%
2014-02-28 20:18:59,459 Stage-1 map = 100%, reduce = 60%
2014-02-28 20:19:00,506 Stage-1 map = 100%, reduce = 80%
2014-02-28 20:19:16,547 Stage-1 map = 100%, reduce = 90%
2014-02-28 20:19:19,554 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201402270420_0006
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/41-1.png>)

Partition is done by the category and can be divided in to buckets by using the 'Clustered By' command.

HDFS:/user/hive/warehouse/r...

Contents of directory /user/hive/warehouse/retail.db/record category=Air Sports

Goto: /user/hive/warehouse/retail.db go

Go to parent directory

Name	Type	Size	Replication	Block Size	Modification Time	Permission	Owner	Group
000000_0	File	5.29 KB	1	64 MB	2014-02-28 20:18	rw-r--r--	root	supergroup
000001_0	File	5.93 KB	1	64 MB	2014-02-28 20:18	rw-r--r--	root	supergroup
000002_0	File	5.51 KB	1	64 MB	2014-02-28 20:18	rw-r--r--	root	supergroup
000003_0	File	4.48 KB	1	64 MB	2014-02-28 20:18	rw-r--r--	root	supergroup
000004_0	File	5.67 KB	1	64 MB	2014-02-28 20:18	rw-r--r--	root	supergroup
000005_0	File	5.67 KB	1	64 MB	2014-02-28 20:18	rw-r--r--	root	supergroup
000006_0	File	14.06 KB	1	64 MB	2014-02-28 20:19	rw-r--r--	root	supergroup
000007_0	File	10.92 KB	1	64 MB	2014-02-28 20:19	rw-r--r--	root	supergroup
000008_0	File	1.1 KB	1	64 MB	2014-02-28 20:19	rw-r--r--	root	supergroup
000009_0	File	6.99 KB	1	64 MB	2014-02-28 20:19	rw-r--r--	root	supergroup

10 Buckets

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/42-1.png>)

The 'Drop Table' statement deletes the data and metadata for a table. In the case of external tables, only the metadata is deleted.

```
hive> drop table customer;
OK
Time taken: 0.922 seconds
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/43-1.png>)

```
aru.txt (-) - gedit
File Edit View Search Tools Documents Help
Open Save Undo Redo Find
aru.txt
Anu,10,5000,Bangalore
Alok,20,10000,Chennai
Amod,30,20000,Pune
Om,40,50000,Delhi
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/44-1.png>)

The 'Drop Table' statement deletes the data and metadata for a table. In the case of external tables, only the metadata is deleted.

Load data local inpath 'aru.txt' into table tablename and then we check employee1 table by using Select * from table name command

```
hive> load data local inpath 'aru.txt' into table employee1;
Copying data from file:/home/cloudera/aru.txt
Copying file: file:/home/cloudera/aru.txt
Loading data to table arushi.employee1
OK
Time taken: 0.434 seconds
hive> select * from employee1;
OK
Anu 10 5000.0 Bangalore
Alok 20 10000.0 Chennai
Amod 30 20000.0 Pune
```

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To count the number of records in table by using Select count(*) from txnrecords;

```
hive> select count(*) from employee1;
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_201312102209_0008, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0008
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0008
2013-12-11 00:58:36,125 Stage-1 map = 0%, reduce = 0%
2013-12-11 00:58:39,154 Stage-1 map = 100%, reduce = 0%
2013-12-11 00:58:46,204 Stage-1 map = 100%, reduce = 33%
2013-12-11 00:58:47,214 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0008
OK
4
Time taken: 14.897 seconds
```

<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/46-1.png>**Aggregation :**

Select count (DISTINCT category) from tablename;

This command will count the different category of 'cate' table. Here there are 3 different categories.

Suppose there is another table cate where f1 is field name of category.

```
hive> select * from cate;
OK
category1      1000
category2      200
category1      1000
category3      5000
category2      200
category1      1000
category2      200
category1      1000
category2      200
category3      5000
Time taken: 0.219 seconds
```

<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/47-1.png>

```
hive> select count(distinct f1) from cate;
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_201312102209_0010, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0010
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0010
2013-12-11 01:04:07,180 Stage-1 map = 0%, reduce = 0%
2013-12-11 01:04:09,190 Stage-1 map = 100%, reduce = 0%
2013-12-11 01:04:16,224 Stage-1 map = 100%, reduce = 33%
2013-12-11 01:04:17,231 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0010
OK
3
Time taken: 13.577 seconds
```

<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/48-1.png>**Grouping :**

Group command is used to group the result-set by one or more columns.

Select category, sum(amount) from txt records group by category

It calculates the amount of same category.

```
hive> select f1, sum(f2) from cate group by f1;
Total MapReduce 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 mapred.reduce.tasks=<number>
Starting Job = job_201312102209_0011, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0011
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0011
2013-12-11 01:04:17,231 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0011
OK
3
Time taken: 13.577 seconds
```


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```

21 -kill job_201312102209_0011
2013-12-11 01:05:36,284 Stage-1 map = 0%,   reduce = 0%
2013-12-11 01:05:38,292 Stage-1 map = 100%, reduce = 0%
2013-12-11 01:05:45,326 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0011
OK
category1      4000
category2      800
category3      10000
Time taken: 12.453 seconds

```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/49-11.png>)

The result one table is stored in to another table.

Create table newtablename as select * from oldtablename;

```

hive> create table result as select * from cate;
Total MapReduce jobs = 2
Launching Job 1 out of 2
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_201312102209_0012, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0012
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0012
2013-12-11 01:09:44,943 Stage-1 map = 0%,   reduce = 0%
2013-12-11 01:09:46,957 Stage-1 map = 100%, reduce = 0%
2013-12-11 01:09:47,970 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0012
Ended Job = 20115431, job is filtered out (removed at runtime).
Launching Job 2 out of 2
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_201312102209_0013, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0013
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0013
2013-12-11 01:09:50,216 Stage-2 map = 0%,   reduce = 0%
2013-12-11 01:09:51,224 Stage-2 map = 100%, reduce = 0%
2013-12-11 01:09:52,230 Stage-2 map = 100%, reduce = 100%
Ended Job = job_201312102209_0013

```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/50-1.png>)

Join Command :

Here one more table is created in the name 'mailid'

```

hive> create table mailid(name string, email string)
> row format delimited
> fields terminated by ',';
OK
Time taken: 0.081 seconds

```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/51-1.png>)

```

hive> select * from mailid;
OK
anu    anu@gmail.com
om     om@yahoo.com
Anu    anu@gmail.com
Om     om@yahoo.com
Alok   alok@gmail.com
Time taken: 0.126 seconds

```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/52-1.png>)

Join Operation:

A join operation is performed to combining fields from two tables by using values common to each.

```

hive> select a.name,a.age,a.salary,b.email from employee1 a
> join mailid b on a.name = b.name;
Total MapReduce 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 mapred.reduce.tasks=<number>
Starting Job = job_201312102209_0017, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0017
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0017
2013-12-11 01:30:34,669 Stage-1 map = 0%,   reduce = 0%
2013-12-11 01:30:36,677 Stage-1 map = 67%,  reduce = 0%
2013-12-11 01:30:38,688 Stage-1 map = 100%, reduce = 0%
2013-12-11 01:30:44,721 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0017
OK
Alok    20      10000.0 alok@gmail.com
Anu     10      5000.0  anu@gmail.com
Om      40      50000.0 om@yahoo.com

```

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Left Outer Join:

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```
hive> select a.name,a.age,a.salary,b.email from employee1 a
> left outer join mailid b on a.name = b.name;
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/54-1.png>)

```
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 mapred.reduce.tasks=<number>
Starting Job = job_201312102209_0018, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0018
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0018
2013-12-11 01:35:13,880 Stage-1 map = 0%, reduce = 0%
2013-12-11 01:35:15,887 Stage-1 map = 67%, reduce = 0%
2013-12-11 01:35:17,897 Stage-1 map = 100%, reduce = 0%
2013-12-11 01:35:22,920 Stage-1 map = 100%, reduce = 33%
2013-12-11 01:35:23,926 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0018
OK
Alok  20      10000.0 alok@gmail.com
Amod  30      20000.0 NULL
Anu   10       5000.0 anu@gmail.com
Om    40      50000.0 om@yahoo.com
Time taken: 13.464 seconds
```

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Right Outer Join:

A right outer join (or right join) closely resembles a left outer join, except with the treatment of the tables reversed. Every row from the “right” table (B) will appear in the joined table at least once.

```
hive> select a.name,a.age,a.salary,b.email from employee1 a
> right outer join mailid b on a.name = b.name;
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/56-1.png>)

```
Total MapReduce 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 mapred.reduce.tasks=<number>
Starting Job = job_201312102209_0019, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0019
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0019
2013-12-11 01:37:53,768 Stage-1 map = 0%, reduce = 0%
2013-12-11 01:37:55,775 Stage-1 map = 67%, reduce = 0%
2013-12-11 01:37:57,789 Stage-1 map = 100%, reduce = 0%
2013-12-11 01:38:03,817 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0019
OK
Alok  20      10000.0 alok@gmail.com
Anu   10       5000.0 anu@gmail.com
Om    40      50000.0 om@yahoo.com
NULL  NULL     NULL    anu@gmail.com
NULL  NULL     NULL    om@yahoo.com
```

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Full Join:

The joined table will contain all records from both tables, and fill in NULLs for missing matches on either side.

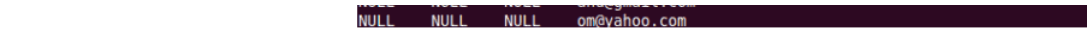
```
hive> select a.name,a.age,a.salary,b.email from employee1 a
> full join mailid b on a.name = b.name;
```

(<https://cdn.edureka.co/blog/wp-content/uploads/2014/03/58-1.png>)

```
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 mapred.reduce.tasks=<number>
Starting Job = job_201312102209_0020, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201312102209_0020
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201312102209_0020
2013-12-11 01:40:18,206 Stage-1 map = 0%, reduce = 0%
2013-12-11 01:40:20,213 Stage-1 map = 67%, reduce = 0%
2013-12-11 01:40:22,222 Stage-1 map = 100%, reduce = 0%
2013-12-11 01:40:28,251 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201312102209_0020
OK
Alok  20      10000.0 alok@gmail.com
Amod  30      20000.0 NULL
```


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Once done with hive we can use quit command to exit from the hive shell.

```
hive> quit;
```

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Hive is just a part of the big puzzle called Big Data and Hadoop. Hadoop is much more than just Hive. Click below to see what other skills you should master in Hadoop.

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About Awanish (19 Posts (<https://www.edureka.co/blog/author/awanish/>))
Awanish is a Sr. Research Analyst at Edureka. He has rich expertise in Big Data technologies like Hadoop, Spark, Storm, Kafka, Flink. Awanish also holds good knowledge on Devops tools like Git, Jenkins, Docker, Puppet, Nagios. He is passionate about new technologies which provide realistic solutions.



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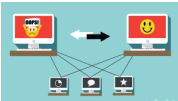
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My mail id - sankeerna.lkmails@gmail.com..

Thanks in advance.

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very understandable.watched your youtube video too.can u send me real projects related to this will be more useful.My email id is rathikarathinam@gmail.com

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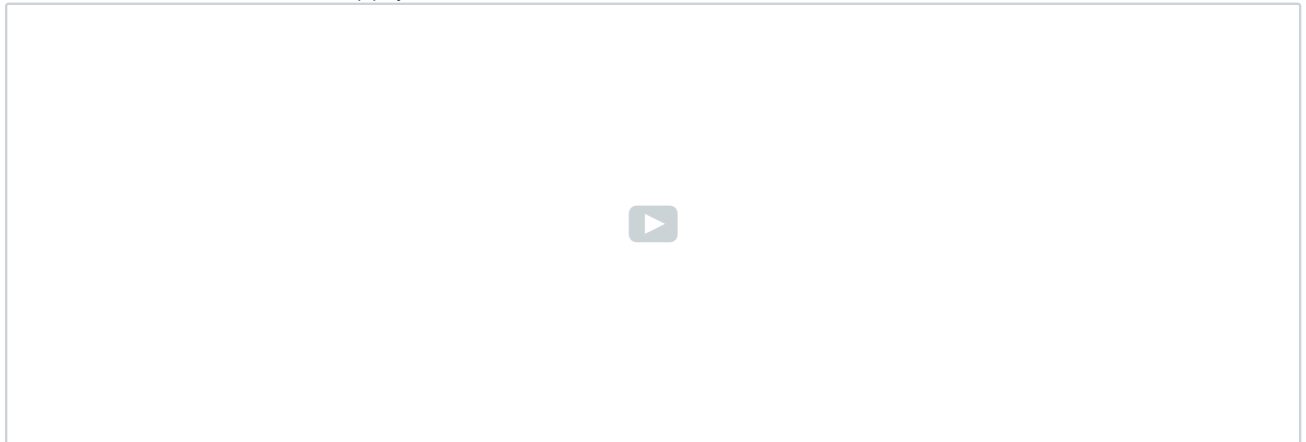
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Please feel free to write to us if you have any questions. Hope this helps. Cheers!

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very helpful blog..nice content..easy to understand ..Sir i want to know that is all data transfered in hadoop is in serialized form

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Hey Rajiv, thanks for checking out our blog. With regard to your query, yes, the serialized data will be stored in Hive. To insert data into table, Hive creates an object by using Java. To transfer java objects over network, the data should be serialized. Each field serialized by using Object inspector and finally serialized data stored in Hive table. Hope this helps. Cheers!

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thanks sir for doubt clarification

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please tell me the query how to split the information contained in the table in to another table

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Hey Vissu, thanks for checking out our blog. You can insert existing data from a table into another table by using select query.

INSERT INTO table new_table select columnlist FROM secondtable where soma_conditions;

Hope this helps. Cheers!

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i became much acquainted with HIVE with help of this blog.

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Thanks in advance :)

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Hi Mridula,

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nice blog.. this blog helps beginners to work and understand the HIVE commands. very useful... :)

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Very Informative! Thanks

This should be tightly coupled with HBase also running on Hadoop

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Thanks Prateek!

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