Commands:

1. To enter hive terminal

Command: hive

Output: hive>

2. To check the databases

Command: show databases;

Output:

hive> show tables;

OK

bookinfo

Time taken: 0.079 seconds

hive> use data1;

OK

Time taken: 0.015 seconds

3. To check the tables

Command: show tables;

Output:

hive> show tables;

OK

cust_master

emp

product_master

Time taken: 0.026 seconds

4. To use a particular database

Command: use dbname;

Output:

hive> use books

  > ;

OK

Time taken: 0.031 seconds

5. To create database

Command: create database retail;

Output:

hive> create database retail;

OK

Time taken: 0.109 seconds

hive> use retail;

OK

Time taken: 0.0070 seconds

6. To create table emp in retail database

Output:

hive> create table empy(a INT , B STRING , C DOUBLE) row format delimited fields terminated by ',' stored as textfile;

OK

Time taken: 0.119 seconds

hive> create table emp(id INT , name STRING , sal DOUBLE) row format delimited fields terminated by ',' stored as textfile;

OK

Time taken: 0.036 seconds

7. Schema information of table
Output:

hive> describe empy

    > ;

OK

a   int

b   string

c   double

Time taken: 0.047 seconds

8. To create file in training folder and save as demo.txt
To view contents of demo.txt file

To load data from local path

Output:

```
hive> exit;
[training@localhost ~]$ vi empy.txt
[training@localhost ~]$ pwd
/home/training
[training@localhost ~]$ cat /home/training/empy.txt
1,aaa,5000
2,bbbm,10000
3,ccc,54000
4,ddd,7890
5,ttt,6700

hive> use retail;
OK
Time taken: 1.044 seconds
hive> show tables;
OK
emp
empy
Time taken: 0.121 seconds
hive> load data local inpath '/home/training/empy.txt' into table empy;
Copying data from file:/home/training/empy.txt
Copying file: file:/home/training/empy.txt
Loading data to table retail.empy
OK
Time taken: 0.222 seconds
```

9. To view contents of table

Command: select * from emp;
Output:

```
hive> select * from empy;
OK
1       aaa     5000.0
2       bbbm    10000.0
3       ccc     54000.0
4       ddd     7890.0
5       ttt     6700.0
Time taken: 0.15 seconds
```

10. To rename table name

Command: ALTER TABLE old_table_name RENAME TO new_table_name;

Output:
hive> use retail;
hive> alter table empy rename to emp_sal;
 OK

Time taken: 0.388 seconds

11. Selecting data
Command: hive> select * from emp_sal where id=1;
Output:

hive> select * from emp_sal where id=1;
OK
1   aaa   5000.0
Time taken: 0.10 seconds

12. To count number of records in table
Output:
hive> select count(*) from emp_sal;
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_201907242206_0001,   Tracking   URL   =
http://localhost:50030/jobdetails.jsp?jobid=job_201907242206_0001
Kill Command = /usr/lib/hadoop/bin/hadoop job   -Dmapred.job.tracker=localhost:8021 -kill
job_201907242206_0001
2019-07-24 23:23:29,355 Stage-1 map = 0%, reduce = 0%
2019-07-24 23:23:30,362 Stage-1 map = 100%, reduce = 0%
2019-07-24 23:23:37,422 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201907242206_0001
OK
5
Time taken: 11.89 seconds

13. Try using aggregate commands using HQL

Output:

    hive> select sum(C) from emp_sal;

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_201907242206_0002, Tracking URL =
http://localhost:50030/jobdetails.jsp?jobid=job_201907242206_0002

Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill
job_201907242206_0002

2019-07-24 23:24:40,754 Stage-1 map = 100%, reduce = 0%

2019-07-24 23:24:47,805 Stage-1 map = 100%, reduce = 100%

Ended Job = job_201907242206_0002

OK

83590.0

Time taken: 10.303 seconds

hive> select max(p_length) from iris;

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_201907242206_0003, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201907242206_0003

Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201907242206_0003

2019-07-24 23:48:49,187 Stage-1 map = 0%, reduce = 0%

2019-07-24 23:48:50,193 Stage-1 map = 100%, reduce = 0%

2019-07-24 23:48:57,253 Stage-1 map = 100%, reduce = 100%

Ended Job = job_201907242206_0003

OK

6.9

Time taken: 10.526 seconds

hive> select variety,count(*) from iris group by variety;

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_201907242224_0003,   Tracking   URL   = http://localhost:50030/jobdetails.jsp?jobid=job_201907242224_0003

Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201907242224_0003

2019-07-24 23:45:57,330 Stage-1 map = 0%, reduce = 0%

2019-07-24 23:45:58,337 Stage-1 map = 100%, reduce = 0%

2019-07-24 23:46:05,393 Stage-1 map = 100%, reduce = 100%

Ended Job = job_201907242224_0003

OK

NULL   2

Setosa 49

Versicolor   50

Virginica   50

Time taken: 11.532 seconds

14. To drop table
Output:

```
hive> drop table emp_sal;
OK
```

Time taken: 5.3 seconds

15. To exit from Hive terminal
```
          hive> exit;
```