

## Practical 5: Install Hive and Use Hive to Create and Store Structured Databases

Commands:

```
cat > /home/cloudera/employee.txt
cat /home/cloudera/employee.txt
sudo -u hdfs hadoop fs -put /home/cloudera/employee.txt /inputdirectroy
hdfs dfs -ls /inputdirectory
hadoop fs -cat /inputdirectory/employee.txt
hive
show databases;
create database organization;
show databases;
use organization;
show tables;
hive> create table employee(
    > id int,
    > name string,
    > city string,
    > department string,
    > salary int,
    > domain string)
    > row format delimited
    > fields terminated by '~';

show tables;
select * from employee;
show tables;
load data inpath '/inputdirectory/employee.txt' overwrite into table employee;
show tables;
select * from employee;
```

## OUTPUT

```
Applications Places System cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ cat > /home/cloudera/employee.txt
1-Sachine-Pune-Product Engineering-100000-Big Data
2-Gaurav-Bangalore-Sales-90000-CRM
3-Manish-Chennai-Recruiter-125000-HR
4-Bhushan-Hyderabad-Developer-50000-BFSI
[cloudera@quickstart ~]$ cat /home/cloudera/employee.txt
1-Sachine-Pune-Product Engineering-100000-Big Data
2-Gaurav-Bangalore-Sales-90000-CRM
3-Manish-Chennai-Recruiter-125000-HR
[cloudera@quickstart ~]$ sudo -u hdfs hadoop fs -put /home/cloudear/employee.txt /inputdirectory
put: /home/cloudear/employee.txt: No such file or directory
[cloudera@quickstart ~]$ sudo -u hdfs hadoop fs -put /home/cloudera/employee.txt /inputdirectory
[cloudera@quickstart ~]$ hdfs dfs -ls /inputdirectory
Found 2 items
-rw-r--r-- 1 hdfs supergroup      122 2023-03-20 06:46 /inputdirectory/employee.txt
-rw-r--r-- 1 hdfs supergroup       0 2023-03-20 05:53 /inputdirectory/processfile.txt
[cloudera@quickstart ~]$ hadoop fs -cat /inputdirectory/employee.txt
1-Sachine-Pune-Product Engineering-100000-Big Data
2-Gaurav-Bangalore-Sales-90000-CRM
3-Manish-Chennai-Recruiter-125000-HR
[cloudera@quickstart ~]$ hive

Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> show databases;
OK
default
Time taken: 0.778 seconds, Fetched: 1 row(s)
hive> create database organization;
OK
Time taken: 4.94 seconds
hive> show databases;
OK
default
organization
Time taken: 0.034 seconds, Fetched: 2 row(s)
hive> use organization;
OK
Time taken: 0.111 seconds
hive> show tables;
OK
Time taken: 0.048 seconds
hive> create table employee(
  > id int,
  > name string,
  > city string,
Time taken: 0.034 seconds, Fetched: 1 row(s)
hive> load data inpath '/inputdirectory/employee.txt' overwrite into table employee;
Loading data to table organization.employee
chmod: changing permissions of 'hdfs://quickstart.cloudera:8020/user/hive/warehouse/organization.db/employee/employee.txt': Permission denied. user=cloudera is not the owner of inode=employee.txt
Table organization.employee stats: [numFiles=1, numRows=0, totalSize=122, rawDataSize=0]
OK
Time taken: 0.593 seconds
hive> show tables;
OK
employee
Time taken: 0.017 seconds, Fetched: 1 row(s)
hive> select * from employee;
OK
Time taken: 0.703 seconds
hive> show tables;
OK
employee
Time taken: 0.025 seconds, Fetched: 1 row(s)
hive> load data inpath '/inputdirectory/employee.txt' overwrite into table employee;
Loading data to table organization.employee
chmod: changing permissions of 'hdfs://quickstart.cloudera:8020/user/hive/warehouse/organization.db/employee/employee.txt': Permission denied. user=cloudera is not the owner of inode=employee.txt
Table organization.employee stats: [numFiles=1, numRows=0, totalSize=122, rawDataSize=0]
OK
Time taken: 0.593 seconds
hive> show tables;
OK
employee
Time taken: 0.034 seconds, Fetched: 1 row(s)
hive> select * from employee;
OK
1      Sachine Pune      Product Engineering      100000  Big Data
2      Gaurav  Bangalore      Sales      90000    CRM
3      Manish  Chennai  Recruiter      125000  HR
Time taken: 0.076 seconds, Fetched: 3 row(s)
hive>
```