# Poornima Institute of Engineering & Department of Computer Engineering Session 2020-21

IV year---VIII Semester

**Subject: Big Data Analytics (8CS4-1)** 

**Experiment-8** 

**Topic: -Working with hive** 

Objective: Install and Run Hive then use Hive to create, alter, and drop databases, tables, views, functions, and indexes.

# Hive is pre-installed in cloudera framework.

Step

- 1. Open Terminal run command hive---enter
- 2. In Hive mode now

hive>

3. To create Database:-

hive> CREATE DATABASE user:

OK

Time taken: 4.478 seconds

#### 4. Show database in hive:-

hive> show databases;

OK

default

user

Time taken: 0.77 seconds, Fetched: 2 row(s)

# 5. Drop Database:-

hive> DROP DATABASE IF EXISTS user;

OK

Time taken: 0.751 seconds

#### 6. Create Table:-

hive> CREATE TABLE IF NOT EXISTS employee (eid int,name String,salary String,destination String)

- > COMMENT 'Employee details'
- > ROW FORMAT DELIMITED
- > FIELDS TERMINATED BY '\t'
- > LINES TERMINATED BY '\n'
- > STORED AS TEXTFILE;

OK

Time taken: 2.316 seconds

#### 7. Show Tables:-

hive>show table;

OK

emp

Time taken: 0.77 seconds, Fetched: 1 row(s)

8. Create txt file in /home/cloudera/hive/sample.txt.

#### 9. Load data in emp table:

hive> LOAD DATA LOCAL INPATH '/home/cloudera/hive/sample.txt' OVERWRITE INTO TABLE emp;

Loading data to table default.emp

Table default.emp stats: [numFiles=1, numRows=0, totalSize=201, rawDataSize=0]

OK

Time taken: 1.409 seconds

### 10. Hive - Alter Table

The statement takes any of the following syntaxes based on what attributes we wish to modify in a table.

ALTER TABLE name RENAME TO new\_name

ALTER TABLE name ADD COLUMNS (col\_spec[, col\_spec ...])

ALTER TABLE name DROP [COLUMN] column\_name

ALTER TABLE name CHANGE column\_name new\_name new\_type

ALTER TABLE name REPLACE COLUMNS (col spec[, col spec ...])

# 11. The following query renames the table from employee to emp.

hive> ALTER TABLE employee RENAME TO emp;

OK

Time taken: 0.23 seconds

hive> show tables;

OK

emp

p

patients

prescription

Time taken: 0.05 seconds, Fetched: 4 row(s)

#### 12. Change Statement

Change column name:-

hive> ALTER TABLE emp CHANGE name ename String;

OK

Time taken: 5.781 seconds

### 13. Change type of column:-

hive> ALTER TABLE emp CHANGE salary salary Double;

OK

Time taken: 0.269 seconds

### 14. To add new column in table:-

This query adds a column named dept to the emp table.

hive> ALTER TABLE emp ADD COLUMNS (dept STRING COMMENT 'Department name');

OK

Time taken: 0.281 seconds

# 15. Replace Statement:

This query deletes all the columns from the emp table and replaces it with emp and name columns:

hive> ALTER TABLE emp REPLACE COLUMNS (eid INT empid Int,ename STRING name String);

# 16. Drop Table Statement:-

This query drops a table named employee:

hive> DROP TABLE IF EXISTS emp;

17. To create data randomly use <u>www.generatedata.com</u>, to see how it will work use my recorded video on teams.

https://poornimauniversity.sharepoint.com/sites/PIET\_CS\_VIIISEMSECTIONB/Shared%20Documents/BIG%20DATA%20ANALYTICS%20LAB/Recordings/Experiment-8-20210605\_091115-Meeting%20Recording.mp4?web=1