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**School of computer application**

CA Third

of

Big Data (CAP 457)

**Session 2022-2024**

**Submitted to: Submitted by:**

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**Que.1 : Demonstrate the concept of datbases create a new database show the list of databases also write the command to delete database.**

**Step.1.** Login in to hive using command ‘hive’.

**Step.2.** For creating a new database we use command **CREATE SCHEMA userdb**

**Step.3.** Now we show the list of databases by using command **SHOW DATABASES**

**Step.4.** Now we delete the database by using command **DROP DATABASE IF EXISTS userdb**

**Step.5.** After deleting the database we show the list of databases.

**Screenshot**

**Graphical user interface, text, application

Description automatically generated**

**Que.2. Demonstrate the concept of map and array data type in hive.**

**Step.1.** Create a text file named as population using command **gedit population.txt**

**Step.2.** Create a table using following command :

**>create table population(city string, gender string, coll map<int,int>)**

**>row format delimited**

**>fields terminated by '\t’**

**>collection items terminated by ',’**

**>map keys terminated by ‘:’;**

**Step.3.** Load data in to the table by using command :

>**load data local inpath ‘/home/cloudera/population.txt’ into table population**

**Step.3.** Access the data using following commands :

**>select coll[2018] from population where city = ‘delhi’;**

**Select coll[2020] from population where city = ‘delhi’ and gender = ‘male’;**

**Screenshots**

Graphical user interface, text, application

Description automatically generated**Graphical user interface, text, application

Description automatically generated**

**Que.3. Demonstrate the concept of table partition in hive.**

**Step.1.** First we create the file rajya.

**Step.2.** Then we create a parent table using command:

**>create table Rajya(state string, city string, pop bigint)**

**>row format delimited**

**>fields terminated by ‘\t’**

**>lines terminated by ‘\n’;**

**>load data local inpath '/home/cloudera/rajya.txt' into table Rajya;**

**Step.3.** Then we create a child table by using command

**>create table part(city string, pop bigint)**

**>partitioned by (state string);**

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

**>Insert overwrite table par partition(state)**

**>Select city,pop,state from Rajaya;**

**Step.4.** After that we check the partion is created or not by using command

**hdfs dfs -ls /user/hive/warehouse/par/state=UP/**

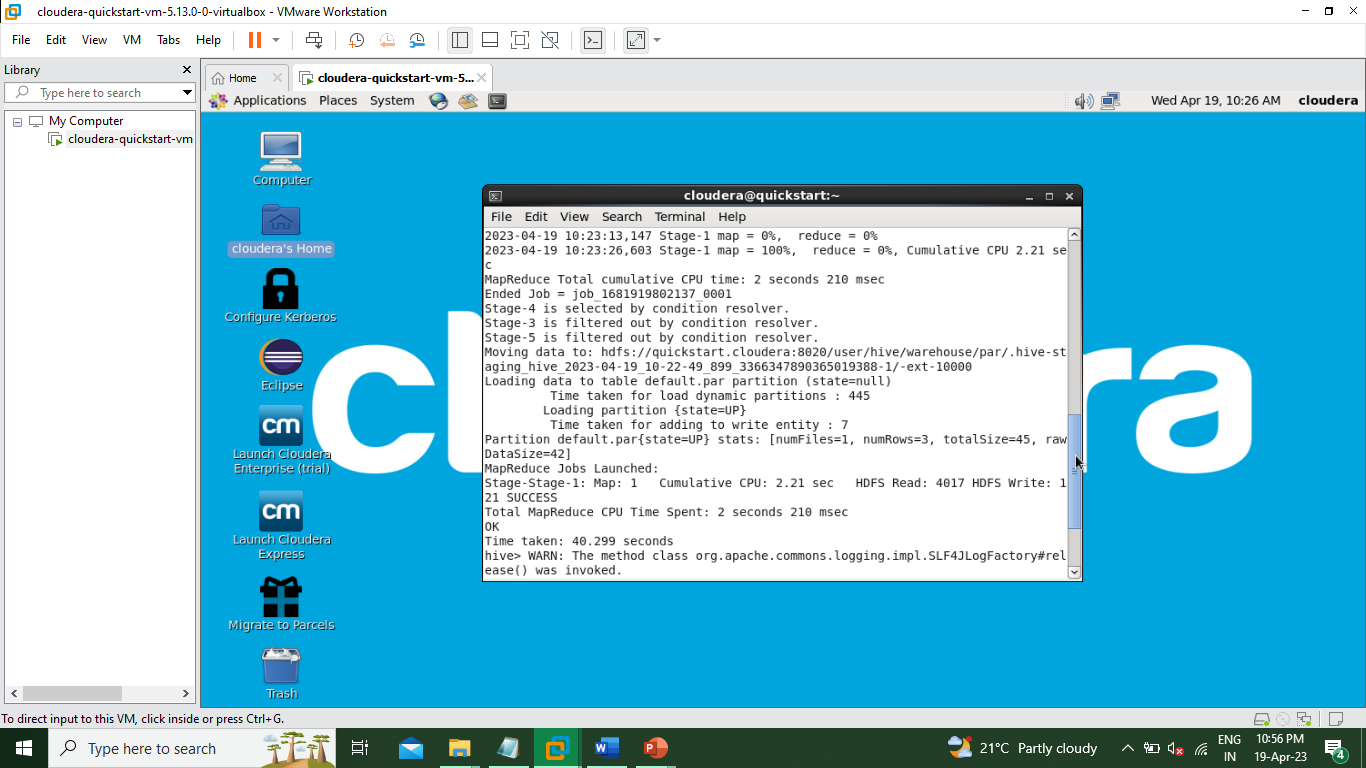
**Screenshots**

Graphical user interface, text

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