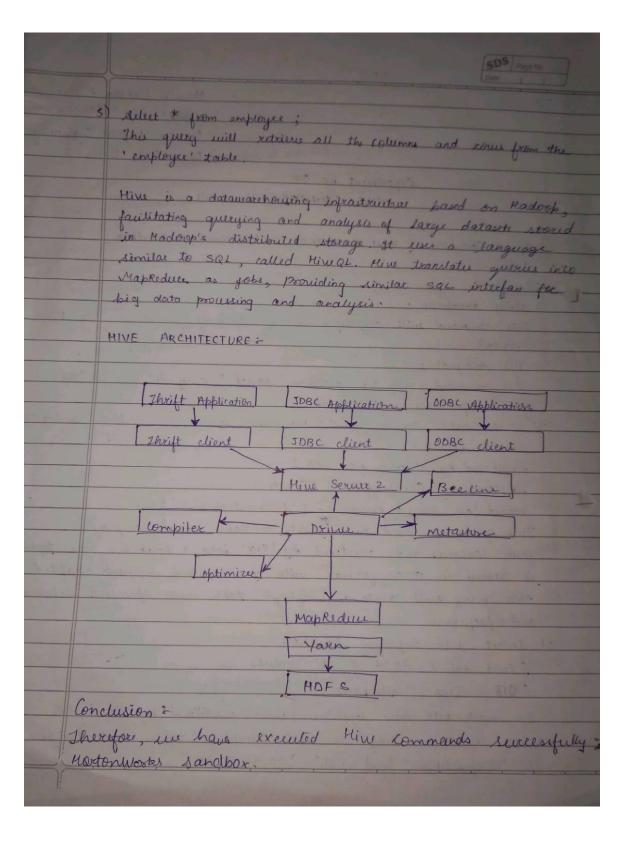
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Div:-C2; Batch:-1

BDI-Experiment 4

BDI SDS Page No.
Name or Breksha A. Patel
dapid > 60004210126
Branch & Computer Engineering
Divr C2 Rotal 1
Experiment no. 04 HIVE COMMANDS
COMMINDS
Aim & Execution of Hive commands in Hartonworks sandbox
Theory 5
2) show databases
This command will display a list of databases present in the Hime metastore.
matastore. Instastore.
2) Use cinqui-dh.
This command eves the database paned " anay-db" for all the
3) create table employee (eid int, ename varihar (20), eaddress varchar (20),
partitioned by cload-date date)
alustered by Ceid) into 3 buckets.
stored as are + properties ('transactional' = 'true');
This query is used to create a table named employee
with columns and clustered by 'eid' into 3 buckets. The table
is stored in ORC format with transactional support enabled
this query will execte an employee table with specified schema
and properties.
4) Insert into employee partition.
Cload date = '2024 - 02-14') values
. C. 018, "Tino", " rile parle", 123456578);
To insert data into 'employee' table partitioned by 'load date' This
query insects a single now into 'employee' table and assigns it
to the partition ! load - olati" = "2024 - 02-14".
7 70



1) Show databases

```
hive> show databases;
OK
default
foodmart
xademo
Time taken: 1.332 seconds, Fetched: 3 row(s)
```

2) Create database

hive> create database gandhar; OK

3) Use database

```
hive> use gandhar;
OK
Time taken: 0.398 seconds
```

4) Create table

5) Inserting values into table

```
hive> insert into student partition (load_data='2023-04-09') values ('101', 'Manav', 'Computer', 123456);
Query ID = root_20240214035518_c605d715-45d8-4860-8fdc-bee34ea0838e
Total jobs = 1
Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1707879688667_0001)

VERTICES STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED

Map 1 ....... SUCCEEDED 1 1 0 0 0 0

VERTICES: 01/01 [============>>] 100% ELAPSED TIME: 7.70 s

Loading data to table gandhar.student partition (load_data=2023-04-09)
Partition gandhar.student{load_data=2023-04-09} stats: [numFiles=1, numRows=0, totalSize=858, rawDataSize=0]
OK
Time taken: 12.551 seconds
```

6) Display data

```
hive> select * from student;

OK

101 Manav Computer 123456 2023-04-09

102 Aditya Computer 123233 2023-04-10

Time taken: 0.27 seconds, Fetched: 2 row(s)
```

7) Order by

```
nive> select id, name from student order by id desc;
Query ID = root 20240214035923 a770cf77-452d-4dfc-be6f-3416ca85c82e
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1707879688667_0001)
       VERTICES
                    STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
Map 1 ..... SUCCEEDED
                                                   0
                                                            0
                                                                    0
                                                                            0
Reducer 2 ..... SUCCEEDED
                                                   0
                                                           0
                                                                    0
                                                                           0
OK
102
       Aditya
       Manay
Time taken: 42.677 seconds, Fetched: 2 row(s)
```

8) Group by

9) Update tuple

```
Note that taple

Note of the taple of the proof of the pr
```

10) Delete tuple

11) Alter table name

```
hive> alter table student rename to stud;
OK
Time taken: 0.526 seconds
```

```
hive> show tables;
OK
stud
values__tmp__table__1
values__tmp__table__2
values__tmp__table__3
values__tmp__table__4
values__tmp__table__5
values__tmp__table__6
Time taken: 0.164 seconds, Fetched: 7 row(s)
```

12) Add column

```
hive> alter table stud add columns(cgpa double);
OK
Time taken: 0.357 seconds
```

13) Change column name

```
hive> alter table stud change name sname String;
OK
Time taken: 0.352 seconds
```

14) Updating values in new column

```
hive> update stud set cgpa=6.9 where id = 101;
Query ID = root_20240214041257_0cd1a0ab-5a3b-4785-952b-6a4c0d42d65d
otal jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application 1707879688667 0001)
                     STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
       VERTICES
lap 1 ..... SUCCEEDED
Reducer 2 .....
                  SUCCEEDED
.oading data to table gandhar.stud partition (load_data=null)
        Time taken for load dynamic partitions : 524
       Loading partition {load_data=2023-04-09}
        Time taken for adding to write entity: 1
Partition gandhar.stud{load_data=2023-04-09} stats: [numFiles=2, numRows=0, totalSize=1816, rawDataSize=0]
Time taken: 34.957 seconds
```

```
hive> select * from stud;

OK

101 Manav Computer 123456 6.9 2023-04-09

102 Aditya Computer 123233 NULL 2023-04-10

Time taken: 0.355 seconds, Fetched: 2 row(s)
```

15) Aggregate functions (sum, max, min, count)

```
hive> select min(cgpa) from stud;
Query ID = root_20240214041730_0cfd0127-19c1-4a41-bee7-7e7916f03c42
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1707879688667_0001)
                    STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
       VERTICES
                                                                           0
Map 1 ..... SUCCEEDED
Reducer 2 .....
                                                   0
                                                          0
                                                                           0
OK
6.9
Time taken: 11.066 seconds, Fetched: 1 row(s)
hive> select count(cgpa) from stud;
Query ID = root_20240214041859_205a0283-b3ed-4dc4-8471-dc0d53ad1288
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1707879688667_0001)
       VERTICES
                    STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
Map 1 ..... SUCCEEDED 6
                                                                         0
Reducer 2 ..... SUCCEEDED
OK
Time taken: 13.864 seconds, Fetched: 1 row(s)
   16) Arithmetic functions
```

```
hive> select * from stud where cgpa < 9.0;
OK
101
                              123456 6.9
              Computer
                                             2023-04-09
       Manav
                              123233 7.4
102
       Aditya Computer
                                             2023-04-10
Time taken: 9.406 seconds, Fetched: 2 row(s)
hive> select * from stud where cgpa>=7;
OK
102
        Aditya Computer
                               123233 7.4
                                               2023-04-10
Time taken: 0.772 seconds, Fetched: 1 row(s)
```

17) Inner Join

18) Left Outer Join

```
left outer join orders o
   > on (c.id = o.customer_id);
Query ID = root_20240214051122_5a19dcc9-a374-4602-b029-f9a688a01e32
Fotal jobs = 1
aunching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1707879688667_0003)
       VERTICES
                     STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
                  SUCCEEDED
                       Mumbai 25000
                                       2023-03-09
                               50000
                                       2023-03-10
                       Pune
                       Bhopal 35000
                                       2023-03-11
                                                                       20000
                       Bhopal 35000 2023-03-11
                                                                       25000
     taken: 20.524 seconds, Fetched: 4 row(s)
```

19) Right Outer Join

```
nive> select * from customer c right outer join orders o
   > on (c.id = o.customer id);
Query ID = root_20240214051357_d26cdc0c-794e-436e-ac45-417c1d596300
Total jobs = 1
aunching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1707879688667_0003)
                     STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
       VERTICES
                  SUCCEEDED
lap 2 .....
                  SUCCEEDED
                       Bhopal 35000
       Mike
                                       2023-03-11
                                                                      20000
                       Bhopal
                               35000
                                       2023-03-11
NULL
       NULL
               NULL
                       NULL
                              NULL
                                                              10000
                                              104
Time taken: 11.452 seconds, Fetched: 3 row(s)
```

20) Full Outer Join

```
hive> select * from customer c full outer join orders o
   > on (c.id = o.customer_id);
Query ID = root_20240214051525_b841e829-7006-4052-ad48-bc62f066f587
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application 1707879688667 0003)
                     STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
       VERTICES
                  SUCCEEDED
Map 3 .....
                  SUCCEEDED
                  SUCCEEDED
Reducer 2 .....
       Ross
                       Mumbai 25000
                                       2023-03-09
                                                               NULL
                               35000
                                                                       20000
                       Bhopal
                                       2023-03-11
       Mike
                       Bhopal 35000
                                       2023-03-11
                                                                       25000
       Albin
                       Pune
                               50000
                                       2023-03-10
                                                               NULL
                                       NULL
                                               104
                                                               10000
ime taken: 40.32 seconds, Fetched: 5 row(s)
```

21) Views in HIVE

```
hive> create view if not exists customer vw
   > as select * from customer where address="Mumbai";
OK
Time taken: 0.618 seconds
hive> select * from customer vw;
OK
       Ross
               25
                       Mumbai 25000
                                       2023-03-09
Time taken: 0.267 seconds, Fetched: 1 row(s)
hive> alter view customer vw as select * from customer;
OK
Time taken: 0.396 seconds
hive> select * from customer_vw;
OK
               25
       Ross
                       Mumbai 25000 2023-03-09
       Albin
               24
                       Pune
                               50000 2023-03-10
       Mike
               27
                       Bhopal 35000 2023-03-11
Time taken: 0.239 seconds, Fetched: 3 row(s)
```

hive> drop view if exists customer_vw; OK Time taken: 0.575 seconds