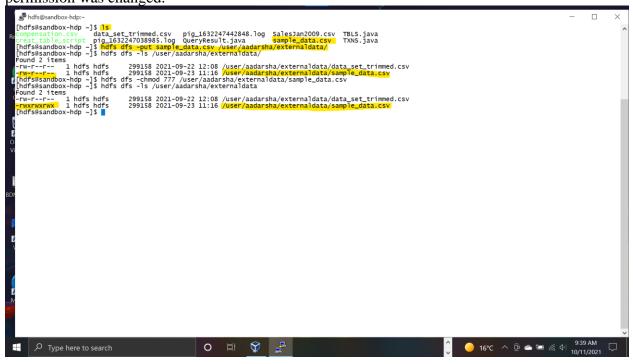
Group A LAB 2b Hive Part1

#### Participants:

- 1. Aadarsha chapagain
- 2.Jyoti shukla
- 3. Rishi Phaneendra Varma
- 4.Priti Bhale
- 5. Sreya Treesa Johny
- 6.Piyush Bhatia

**Objective:** The objective is to find the number of male staff who has been serving more than 15 years and are still active.

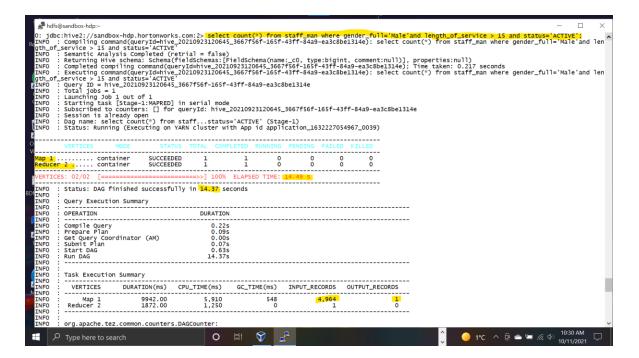
1. The public data set was uploaded with winscp and copied to hdfs file system and permission was changed.



2. Managed table without partition

#### **Analysis:**

To achieve the objective the following query was run. select count(\*) from staff\_man where gender\_full='Male'and length\_of\_service > 15 and status='ACTIVE';



```
# hds@sandbox.hdp:

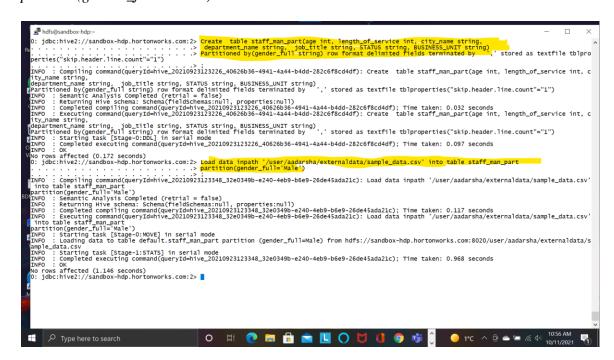
INFO : RECONDS_OUT_OPERATOR_GEV_11: 1
INFO : RECONDS_OUT_OPERATOR_GEV_11: 1
INFO : RECONDS_OUT_OPERATOR_RE_10: 1
INFO : INFO: INFO:
```

# 3. Managed table with partition

Create table staff\_man\_part(age int, length\_of\_service int, city\_name string, department\_name string, job\_title string, STATUS string, BUSINESS\_UNIT string)

Partitioned by(gender\_full string) row format delimited fields terminated by ',' stored as textfile tblproperties("skip.header.line.count"="1")

Load data inpath '/user/aadarsha/externaldata/sample\_data.csv' into table staff\_man\_part partition(gender\_full='Male')



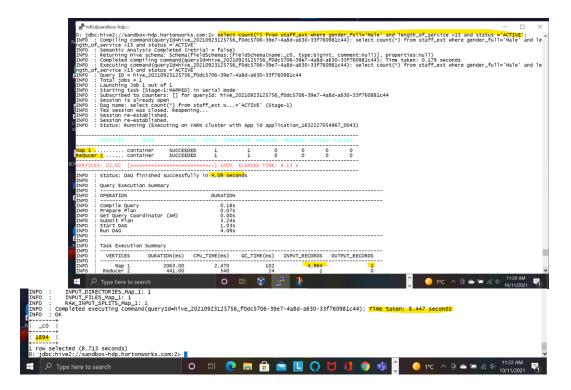
# 4. External table without partition

Keyword external is used to create a external table;

```
### Addition of the common of
```

### **Analysis**

select count(\*) from staff\_ext where gender\_full='Male' and length\_of\_service > 15 and status = 'ACTIVE';



5. External table with partition

```
# hds@sandbox.hdp.

1 row selected (8.713 seconds)

10: jdbc.hive2://sandbox.hdp.hortonworks.com;20

1 reate table staff_ext_part(age.int.

1 length_of_service int.

2 length_of_service int.

3 length_of_service int.

4 department_name string.

5 jdbc.title string.

5 jdbc.title string.

5 jdbc.title string.

5 jdbc.title string.

6 partitioned by(gender full string)

7 row format delimited fields terminated by ', stored as textfile tblproperties("skip.header.line.count"="1")

1 NFO : Compiling command(queryId=hive_20210923130559_38b3db70-4de4-47c9-af4d-ed00eee35aed): Create table staff_ext_part(age int, city_name string.

1 jdbc.title string.

2 jdbc.title string.

3 jdbc.title string.

3 jdbc.title string.

3 jdbc.title string.

3 jdbc.title string.

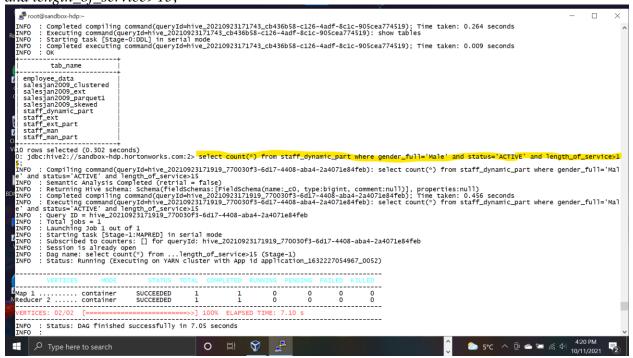
4 jdbc.title string.

5 jdbc.
```

6. External table with dynamic partition

Here it is seen that for dynamic partition insert command is used instead of load command and the field by which partition is done is mentioned at last.

select count(\*) from staff\_dynamic\_part where gender\_full='Male' and status='ACTIVE'
and length\_of\_service>15;



And as per our objective: