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1BM17CS104
LAB 5 Hive

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1. Create an external table named with the following attributes -> Empl_ID ->Emp_Name -> Designation -> Salary

```
CREATE DATABASE IF NOT EXISTS lab9 COMMENT 'employee program' WITH DBPROPERTIES ('creator'=SRISHTI);
SHOW DATABASES;
DESCRIBE DATABASE lab9;
USE lab9;
CREATE EXTERNAL TABLE IF NOT EXISTS Employee(EmpID INT,EmpName STRING,Designation STRING,Salary FLOAT) ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t';
```

2. Load data into table from a given file

```
LOAD DATA LOCAL INPATH '/home/srishti/Desktop/employeeInput.txt' OVERWRITE INTO TABLE Employee;
SELECT * FROM Employee;
```

3. Create a view to Generate a query to retrieve the employee details who earn a salary of more than Rs 30000.

```
CREATE VIEW emp_30000 AS SELECT * FROM Employee WHERE Salary>30000;
SELECT * FROM emp_30000;
```

4. Alter the table to add a column Dept_Id and Generate a query to retrieve the employee details in order by using Dept_Id

```
ALTER TABLE Employee ADD COLUMNS(DeptID INT);
LOAD DATA LOCAL INPATH '/home/srishti/Desktop/employeeInputAltered.txt' OVERWRITE INTO TABLE Employee;
SELECT * FROM Employee;
SELECT * FROM Employee ORDER BY DeptID;
```

5. Generate a query to retrieve the number of employees in each department whose salary is greater than 30000

```
SELECT DeptID,count(*) FROM Employee WHERE Salary>=30000 GROUP BY DeptID;
```

6. Create another table Department with attributes -> Dept_Id ->Dept_name ->Emp_Id

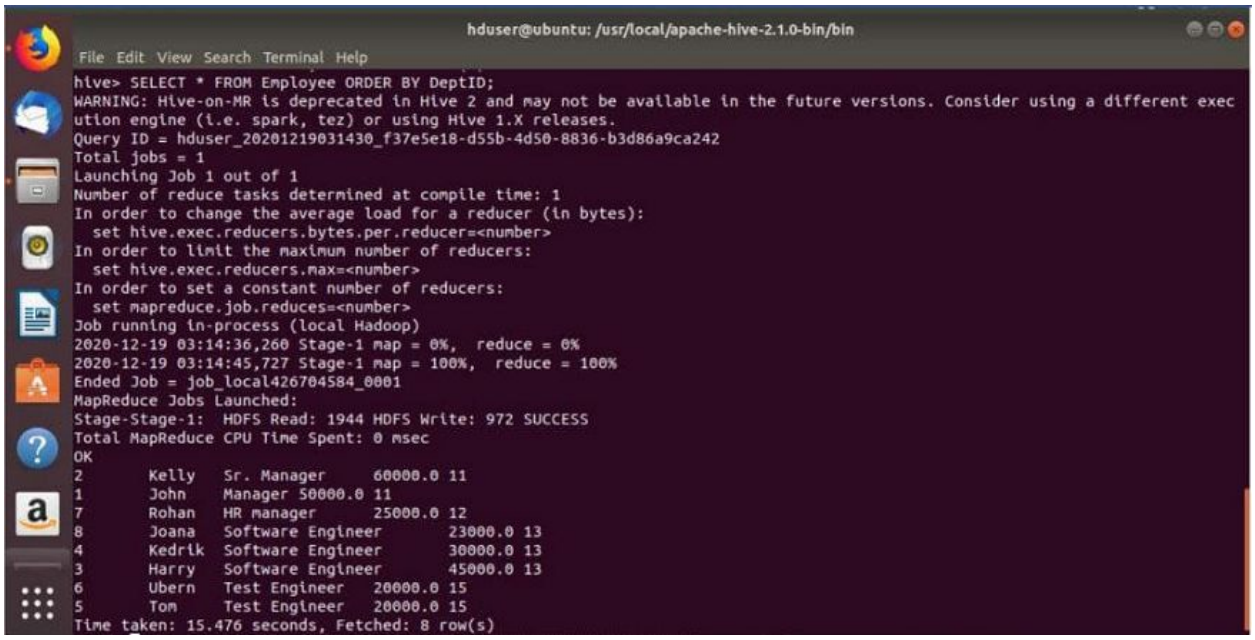
```
CREATE EXTERNAL TABLE IF NOT EXISTS Department(DeptId INT,DeptName STRING) ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t';
LOAD DATA LOCAL INPATH '/home/hritik/Desktop/DepartmentInput.txt' OVERWRITE INTO TABLE Department;
```

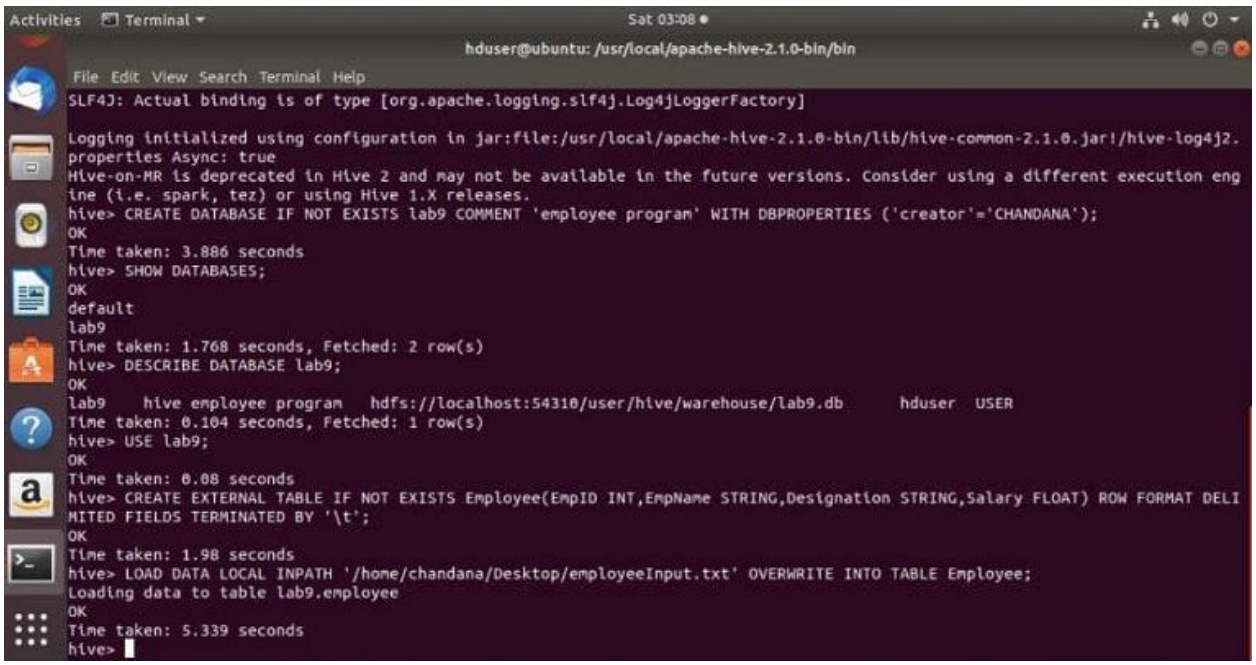
SELECT * FROM Department;

7.Display the cumulative details of each employee along with department details

SELECT a.EmpID,a.EmpName,a.Designation,a.Salary,b.DeptName FROM Employee a
JOIN Department b ON a.DeptID=b.DeptId;

Screenshots




Activities
Terminal
Sat 03:08
hduser@ubuntu: /usr/local/apache-hive-2.1.0-bin/bin
File Edit View Search Terminal Help
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Logging initialized using configuration in jar:file:/usr/local/apache-hive-2.1.0-bin/lib/hive-common-2.1.0.jar!/hive-log4j2.properties Async: true
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releases.
hive> CREATE DATABASE IF NOT EXISTS lab9 COMMENT 'employee program' WITH DBPROPERTIES ('creator'='CHANDANA');
OK
Time taken: 3.886 seconds
hive> SHOW DATABASES;
OK
default
lab9
Time taken: 1.768 seconds, Fetched: 2 row(s)
hive> DESCRIBE DATABASE lab9;
OK
lab9 hive employee program hdfs://localhost:54310/user/hive/warehouse/lab9.db hduser USER
Time taken: 0.104 seconds, Fetched: 1 row(s)
hive> USE lab9;
OK
Time taken: 0.08 seconds
hive> CREATE EXTERNAL TABLE IF NOT EXISTS Employee(EmpID INT,EmpName STRING,Designation STRING,Salary FLOAT) ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t';
OK
Time taken: 1.98 seconds
hive> LOAD DATA LOCAL INPATH '/home/chandana/Desktop/employeeInput.txt' OVERWRITE INTO TABLE Employee;
Loading data to table lab9.employee
OK
Time taken: 5.339 seconds
hive>