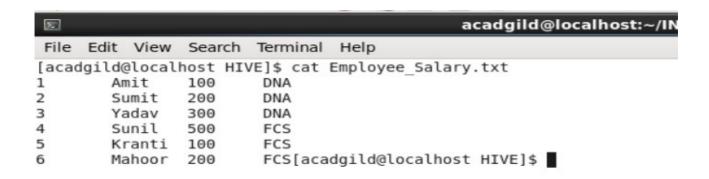
## **Bigdata Assignment 3.4**

Displayed the contents of the file – cat Employee\_Salary.txt;



• Created a tablw with the required column and loaded the data from file into the table.

CREATE TABLE IF NOT EXISTS employee\_salary(id int, name String, salary int, dept String) ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t'; LOAD DATA LOCAL INPATH 'Employee\_Salary.txt' into table employee\_salary;

```
File Edit View Search Terminal Help
hive> CREATE TABLE IF NOT EXISTS employee_salary(id int , name String , salary int , dept String) ROW FORMAT DELIMITED FIELD S TERMINATED BY '\t';
OK
Time taken: 9.329 seconds
hive> LOAD DATA LOCAL INPATH 'Employee_Salary.txt' into table employee_salary;
Loading data to table default.employee_salary
OK
Time taken: 2.901 seconds
hive> 1
```

Displayed the data of the table.
 select \* from employee\_salary;



1. Get a list of employees who receive a salary less than 100, compared to their immediate employee with higher salary in the same unit.

## Ans -

Each employee record is compared woth immediate employee having higher salary then it is selected if salary diff is less than 100.

WITH temp as (select id,name,salary,dept,LEAD(salary,1) OVER (PARTITION BY dept ORDER BY salary) – salary AS salary\_diff FROM employee\_salary) select \* from temp where salary\_diff < 100;

```
File Edit View Search Terminal Help
hive> WITH temp as (select id,name,salary,dept,LEAD(salary,1) OVER (PARTITION BY dept ORDER BY salary) - salary AS salary_dif f
FROM employee_salary) select * from temp where salary_diff < 100;
WARNING: 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.
Ouery ID = acadgild_20180606163502_f533429a-d5b8-467f-af47-2ea5d09fde43
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<a href="https://localhost:8088/proxy/application">https://localhost:8088/proxy/application</a> 1528279835710_0004/
Kill command = /nome/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1528279835710_0004/
Kill command = /nome/acadgild/install/hadoop/hadoop-2.6.5/bin/hadoop job -kill job_1528279835710_0004
Hadoop job information for Stage-1 map = 0%, reduce = 0%, Cumulative CPU 1.82 sec
2018-08-06 16:35:17, 138 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.82 sec
2018-08-06 16:35:17, 138 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 6.05 sec
MapReduce Total cumulative CPU time: 6 seconds 50 msec
Ended Job = job_1528279835710_0004
MapReduce CPU Time Spent: 6 seconds 50 msec
Fined Job = job_1528279835710_0004
MapReduce CPU Time Spent: 6 seconds 50 msec
Total MapReduce CPU Time Spent: 6 seconds 50 msec

In the taken: 24.705 seconds

In the second Spent Spe
```

2. List of all employees who draw higher salary than the average salary of that department

Ans - seleted the employees whose salary is less than the salary of grouped employees salary of same department.

select \* from employee\_salary a where salary> (select AVG(salary)
from employee\_salary b where b.dept = a.dept GROUP BY dept);

