

Assignment 8.1

```
hive> create table if not exists emp
```

```
(
emp_id string,
emp_name string,
salary int,
unit string
)
row format delimited fields terminated by '\t';
OK
Time taken: 0.689 seconds
hive>
```

```
hive> LOAD DATA LOCAL INPATH '/home/acadgild/hive/Datafile.txt' INTO TABLE emp;
Loading data to table custom.emp
Table custom.emp stats: [numFiles=1, totalSize=291]
OK
Time taken: 2.611 seconds
hive>
```

➤ TASK 1

```
hive> select emp_name, salary, lead(emp_name) over (partition by unit order by
salary), lead(salary) over (partition by unit order by salary) from emp where
salary < 100;
Query ID = acadgild_20171124140202_982fced5-fe3f-44e6-8de9-c2ee387a7497
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=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1506241398427_0001, Tracking URL =
http://localhost:8088/proxy/application_1506241398427_0001/
Kill Command = /home/acadgild/hadoop-2.6.0/bin/hadoop job -kill
job_1506241398427_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2017-11-24 14:03:32,054 Stage-1 map = 0%, reduce = 0%
2017-11-24 14:03:54,270 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.98 sec
2017-11-24 14:04:18,053 Stage-1 map = 100%, reduce = 67%, Cumulative CPU 7.38
sec
2017-11-24 14:04:19,400 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 8.95
sec
MapReduce Total cumulative CPU time: 8 seconds 950 msec
Ended Job = job_1506241398427_0001
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 8.95 sec HDFS Read: 513 HDFS
Write: 76 SUCCESS
Total MapReduce CPU Time Spent: 8 seconds 950 msec
```

OK

Smitha	80	NULL	NULL
Pankaj	85	Supriya	90
Supriya	90	Arpitha	95
Arpitha	95	NULL	NULL

Time taken: 85.973 seconds, Fetched: 4 row(s)

➤ TASK 2

```
hive> select emp_id, emp_name, salary, unit, avg_sal from (select emp_id,
emp_name, salary, unit,AVG(salary) over (partition by unit order by salary ROWS
BETWEEN UNBOUNDED PRECEDING AND UNBOUNDED FOLLOWING) as avg_sal from emp) emp2
where salary > avg_sal ;
```

Query ID = acadgild_20171124142727_60dae807-c1d1-4eff-8f36-e7a91e23399a

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=<number>

In order to limit the maximum number of reducers:

set hive.exec.reducers.max=<number>

In order to set a constant number of reducers:

set mapreduce.job.reduces=<number>

Starting Job = job_1506241398427_0004, Tracking URL =

http://localhost:8088/proxy/application_1506241398427_0004/

Kill Command = /home/acadgild/hadoop-2.6.0/bin/hadoop job -kill

job_1506241398427_0004

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2017-11-24 14:27:47,602 Stage-1 map = 0%, reduce = 0%

2017-11-24 14:28:02,935 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.7 sec

2017-11-24 14:28:22,808 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 7.2

sec

MapReduce Total cumulative CPU time: 7 seconds 200 msec

Ended Job = job_1506241398427_0004

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.2 sec HDFS Read: 513 HDFS

Write: 139 SUCCESS

Total MapReduce CPU Time Spent: 7 seconds 200 msec

OK

004	Arpitha	95	Data Engineer	94.0
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010	Siddharath	100	Data Engineer	94.0
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009	Emma	100	Data Engineer	94.0
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008	Vihaan	120	Data Scientist	115.0
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Time taken: 55.527 seconds, Fetched: 4 row(s)

hive>

