

# **ACADGILD**

## Session 08: Advanced Hive

Assignment 1

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#### Big Data and Hadoop Development

#### 1. Problem Statement

hive> select \* from avg where salary>avg window 0;

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

```
hive> create table emp_data(id int,name string,salary int,dept string) row forma
t delimited fields terminated by '\t' stored as textfile;
Time taken: 0.284 seconds
hive> create view emp view as select name,salary,lag(salary,1,0) over (partition by dept order by salary desc) from emp data;
Time taken: 0.125 seconds
hive> select * from emp view;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execu
tion engine (i.e. spark, tez) or using Hive 1.X releases.

Ouery ID = acadmild 20170505144236 2adf1364-cbbf-460a-bf36-e3e4f343e87a
mapheduce Jobs Launched.
 Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 2.0 sec HDFS Read: 10092 HDFS Write: 240 SUCCESS
 Total MapReduce CPU Time Spent: 2 seconds 0 msec
 Yadav
          300
 Sumit
          200
                    300
 Amit
          100
                    200
 Sunil
          500
                    Θ
 Mahoor 200
                    500
Kranti 100
                    200
Time taken: 20.504 seconds, Fetched: 6 row(s)
hive> describe emp_view;
0K
name
                         string
salarv
                         int
lag window θ
                         int
Time taken: 0.09 seconds, Fetched: 3 row(s)
hive> select * from emp view where lag window 0-salary>100;
WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execu
Ended Job = job 1493957425975 0020
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.05 sec HDFS Read: 10335 HDFS Write: 114 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 50 msec
OK
Mahoor 200
Time taken: 22.604 seconds, Fetched: 1 row(s)
         List of all employees who draw higher salary than the average salary
         of that department
hive> create view avg as select name,salary,avg(salary) over (partition by dept) from emp data;
Time taken: 0.198 seconds
hive> describe avg;
name
                         string
salary
avg_window_0
                         double
Time taken: 0.072 seconds, Fetched: 3 row(s)
```

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WARNING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution and the following of the control of the c

### Big Data and Hadoop Development

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 2.57 sec HDFS Read: 9990 HDFS Write: 155 SUCCESS Total MapReduce CPU Time Spent: 2 seconds 570 msec

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Yadav 300 200.0 Sunil 500 266.66666666667

Time taken: 20.493 seconds, Fetched: 2 row(s)

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