



BIG DATA TECHNOLOGIES LAB

(ACADEMIC YEAR: 2017-2018)
I SEMESTER

<u>ASSIGNMENT 6</u> TOPIC: APACHE HIVE - DML

ASHISH CHANDRAKANT DUSANE
M. TECH. (ACDS)
COMPUTER ENGG. DEPARTMENT

{ PRN: 170101261004 }





~: Topic: Apache Hive – DML :~

1. Create database company located at /user/hive/mywarehouse/.

```
Signature Seconds Sec
```

- 2. Create a hive managed table partitioned table employee in company database which can store the following data:
- 1,Anne,Admin,50000,A
- 2,Gokul,Admin,50000,B
- 3, Janet, Sales, 60000, A
- 4,Hari,Admin,50000,C
- 5,Sanker,Admin,50000,C
- 6,Margaret,Tech,12000,A
- 7,Nirmal,Tech,12000,B
- 8, jinju, Engineer, 45000, B
- 9, Nancy, Admin, 50000, A
- 10, Andrew, Manager, 40000, A
- 11, Arun, Manager, 40000, B
- 12, Harish, Sales, 60000, B





- 13, Robert, Manager, 40000, A
- 14,Laura,Engineer,45000,A
- 15,Anju,Ceo,100000,B

```
🗐 📵 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
       CREATE TABLE emp(emp_ID int, emp_Name string,Designation varchar(20),Salary
loat,Grade varchar(10)) row format delimited fields terminated by ',';
Time taken: 0.084 seconds
hive> LOAD DATA LOCAL INPATH '/home/student/Documents/emp_details.txt' into table emp
Loading data to table company.emp
Table company.emp stats: [numFiles=1, totalSize=349]
Time taken: 0.175 seconds
hive> select * from emp;
1
       Anne
               Admin
                        50000.0 A
2
        Gokul
               Admin 50000.0 B
                       60000.0 A
        Janet
               Sales
       Hari
               Admin 50000.0 C
              Admin 50000.0 C
       Sanker
6
7
                       Tech
       Margaret
                               12000.0 A
       Nirmal Tech 12000.0 B
8
        jinju Engineer
                               45000.0 B
       Nancy
               Admin 50000.0 A
10
       Andrew Manager 40000.0 A
11
       Arun
               Manager 40000.0 B
12
       Harish Sales
                       60000.0 B
       Robert Manager 40000.0 A
13
14
       Laura
               Engineer
                               45000.0 A
15
        Anju
               Ceo 100000.0
Time taken: 0.122 seconds, Fetched: 15 row(s)
```

Partition the table using the fourth column.





```
🖣 🕕 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
         Time taken for load dynamic partitions : 895
        Loading partition {salary=50000.0}
        Loading partition {salary=45000.0}
        Loading partition {salary=40000.0}
        Loading partition {salary=60000.0}
        Loading partition {salary=100000.0}
Loading partition {salary=12000.0}
         Time taken for adding to write entity: 32
Partition company.state_part{salary=100000.0}    stats: [numFiles=1, numRows=2, tot
alSize=31, rawDataSize=29]
Partition company.state_part{salary=12000.0}    stats: [numFiles=1, numRows=2, tota
lSize=34, rawDataSize=32]
Partition company.state_part{salary=40000.0} stats: [numFiles=1, numRows=4, tota
lSize=79, rawDataSize=75]
Partition company.state_part{salary=45000.0}    stats: [numFiles=1, numRows=4, tota
lSize=83, rawDataSize=79]
Partition company.state_part{salary=50000.0}    stats: [numFiles=1, numRows=6, tota
lSize=97, rawDataSize=91]
Partition company.state_part{salary=60000.0}    stats: [numFiles=1, numRows=2, tota
lSize=34, rawDataSize=32]
MapReduce Jobs Launched:
                         Cumulative CPU: 2.13 sec
                                                      HDFS Read: 4781 HDFS Write: 7
Stage-Stage-1: Map: 1
08 SUCCESS
Total MapReduce CPU Time Spent: 2 seconds 130 msec
OK.
Time taken: 19.541 seconds
hive>
```

3. Save the above data in a text file on local file system and HDFS. Load data into employee table from both LOCAL & HDFS filesystem.

```
🕒 📵 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
      CREATE TABLE emp(emp_ID int, emp_Name string, Designation varchar(20), Salary f
loat, Grade varchar(10)) row format delimited fields terminated by ',';
OK
Time taken: 0.084 seconds
hive> LOAD DATA LOCAL INPATH '/home/student/Documents/emp_details.txt' into table emp
Loading data to table company.emp
Table company.emp stats: [numFiles=1, totalSize=349]
oĸ
Time taken: 0.175 seconds
hive> select * from emp;
OK
1
                         50000.0 A
        Anne
                Admin
2
        Gokul
                Admin
                         50000.0 B
3
                         60000.0 A
        Janet
                 Sales
4
        Hari
                 Admin
                         50000.0 C
5
                         50000.0 C
        Sanker
                Admin
6
                                 12000.0 A
        Margaret
                         Tech
7
        Nirmal
                         12000.0 B
                Tech
8
        jinju
                Engineer
                                 45000.0 B
9
        Nancy
                Admin
                        50000.0 A
10
        Andrew Manager 40000.0 A
11
        Arun
                Manager 40000.0 B
12
                         60000.0 B
        Harish
                Sales
13
        Robert
                Manager 40000.0 A
14
        Laura
                Engineer
                                 45000.0 A
15
        Anju
                Ceo
                        100000.0
Time taken: 0.122 seconds, Fetched: 15 row(s)
hive>
```





4. Add the following records to the text file and load the modified data into employee table using OVERWRITE.

LOAD DATA LOCAL INPATH "1987.csv" OVERWRITE INTO TABLE stg_airline.onTimePerf;

- 16, Aarathi, Manager, 40000, B
- 17, Parvathy, Engineer, 45000, B
- 18,Gopika,Admin,50000,B
- 19, Steven, Engineer, 45000, A
- 20, Michael, Ceo, 100000, A

```
🗬 📵 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
hive> LOAD DATA LOCAL INPATH '/home/student/Documents/emp_details.txt'OVERWRITE
into table emp;
Loading data to table company.emp
Table company.emp stats: [numFiles=1, numRows=0, totalSize=480, rawDataSize=0]
Time taken: 1.718 seconds
hive> SELECT * FROM EMP;
OK
                Admin
        Anne
                        50000.0 A
2
3
        Gokul
                Admin
                        50000.0 B
        Janet
                Sales
                        60000.0 A
                Admin
        Hari
                        50000.0 C
        Sanker Admin 50000.0 C
        Margaret
                        Tech
                                12000.0 A
        Nirmal Tech
                        12000.0 B
        jinju
                Engineer
                                45000.0 B
        Nancy
                Admin
                        50000.0 A
        Andrew Manager 40000.0 A
11
        Arun
                Manager 40000.0 B
12
        Harish Sales
                        60000.0 B
13
        Robert Manager 40000.0 A
14
                Engineer
        Laura
                                45000.0 A
15
        Anju
                Ceo
                        100000.0
16
        Aarathi Manager 40000.0 B
17
        Parvathy
                        Engineer
                                        45000.0 B
18
        Gopika Admin
                        50000.0 B
        Steven Engineer
                                45000.0 A
        Michael Ceo
                        100000.0
Time taken: 0.448 seconds, Fetched: 20 row(s)
hive>
```





- 5. Create another table new employees with the following records:
- 12, Priyanka, Admin, 40000, C
- 22, Paras, Engineer, 45000, B
- 23, Gopal, Sales, 50000, C
- 24, Sukant, Engineer, 45000, A
- 25, Murugan, CFO, 100000, A

Append these records into employees table using INSERT.

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin

hive> insert into table new_emp (emp_id, emp_name, designation, salary, gra
lues (25, 'Murugan', 'CFO', 100000, 'A');

Query ID = student_20171223110040_db24518b-c0be-47ba-8135-a6c338bb504a

Total jobs = 3

Launching Job 1 out of 3

Number of reduce tasks is set to 0 since there's no reduce operator

Starting Job = job_1514003803554_0006, Tracking URL = http://student-OptiPl
20:8088/proxy/application_1514003803554_0006/

Kill Command = /home/student/Documents/hadoop-2.7.3/bin/hadoop job -kill j
14003803554_0006
```

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
hive> select * from new emp;
OK
12
        Privanka
                       Admin
                               40000.0 C
22
        Paras
              Engineer
                                45000.0 B
        Gopal Sales 50000.0 C
23
        Sukant Engineer
24
                                45000.0 A
        Murugan CFO
                       100000.0
25
Time taken: 0.08 seconds, Fetched: 5 row(s)
hive>
```

6. List the employees having salary>50000.





```
🔞 🗐 📵 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
hive> select * from emp where Salary>50000;
0K
       Janet Sales
                        60000.0 A
12
       Harish Sales
                        60000.0 B
15
       Aniu Ceo
                        100000.0
                                        В
       Michael Ceo
20
                       100000.0
Time taken: 0.09 seconds, Fetched: 4 row(s)
hive>
```

7. Select the list of employees whose names start from A.

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
hive> select * from emp where emp Name like 'A%';
OK
        Anne
                Admin
                        50000.0 A
10
        Andrew Manager 40000.0 A
11
        Arun
                Manager 40000.0 B
15
        Anju
                Ceo
                        100000.0
                                         В
        Aarathi Manager 40000.0 B
16
Time taken: 0.1 seconds, Fetched: 5 row(s)
hive>
```

8. List the number of employees for each Designation.

```
Select Designation, count(*) from emp group by Designation;
Query ID = student_20171223111131_7e83647c-fa86-4141-98ac-b0fc6ef6ed83
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_1514003803554_0007, Tracking URL = http://student-OptiPlex-3020:8088/proxy/application_1514003803554_0007/
```





```
🔊 🗐 🏮 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 4.12 sec
                                                               HDFS Read: 81
92 HDFS Write: 50 SUCCESS
Total MapReduce CPU Time Spent: 4 seconds 120 msec
OK
Admin
        6
Ceo
        2
                4
Engineer
Manager 4
Sales
Tech
Time taken: 18.569 seconds, Fetched: 6 row(s)
```

9. Order the list of employees according to their names.

```
led rule: 'identifier' in table or column identifier
hive> select * from emp order by emp_Name;
Query ID = student_20171223111948_70926390-e674-4239-842c-6ade4591077a
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
    set hive.exec.reducers.bytes.per.reducer=<number>
```

```
🔊 🗐 🏮 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
Stage-Stage-1: Map: 1
                      Reduce: 1 Cumulative CPU: 3.6 sec HDFS Read: 793
2 HDFS Write: 520 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 600 msec
OK
16
       Aarathi Manager 40000.0 B
10
       Andrew Manager 40000.0 A
15
       Anju
              Ceo
                       100000.0
                                       В
1
       Anne
              Admin
                      50000.0 A
11
       Arun
              Manager 40000.0 B
2
       Gokul
              Admin 50000.0 B
                      50000.0 B
18
       Gopika Admin
       Hari
               Admin
                      50000.0 C
4
12
       Harish Sales 60000.0 B
              Sales
3
       Janet
                      60000.0 A
14
                              45000.0 A
       Laura
               Engineer
6
                              12000.0 A
       Margaret
                       Tech
                      100000.0
20
       Michael Ceo
                      50000.0 A
9
               Admin
       Nancy
       Nirmal Tech
                      12000.0 B
7
17
       Parvathy
                       Engineer
                                      45000.0 B
13
       Robert Manager 40000.0 A
5
       Sanker Admin 50000.0 C
       Steven Engineer
19
                              45000.0 A
8
       jinju
              Engineer
                               45000.0 B
Time taken: 17.758 seconds, Fetched: 20 row(s)
```





10. Partition the employees table based upon the salary.

```
Student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
        Time taken for load dynamic partitions: 895
        Loading partition {salary=50000.0}
        Loading partition {salary=45000.0}
        Loading partition {salary=40000.0}
        Loading partition {salary=60000.0}
        Loading partition {salary=100000.0}
        Loading partition {salary=12000.0}
         Time taken for adding to write entity: 32
Partition company.state part{salary=100000.0} stats: [numFiles=1, numRows=2, tot
alSize=31, rawDataSize=29]
Partition company.state part{salary=12000.0} stats: [numFiles=1, numRows=2, tota
lSize=34, rawDataSize=32]
Partition company.state_part{salary=40000.0} stats: [numFiles=1, numRows=4, tota
lSize=79, rawDataSize=75]
Partition company.state_part{salary=45000.0} stats: [numFiles=1, numRows=4, tota
lSize=83, rawDataSize=791
Partition company.state_part{salary=50000.0}    stats: [numFiles=1, numRows=6, tota
lSize=97, rawDataSize=91]
Partition company.state_part{salary=60000.0} stats: [numFiles=1, numRows=2, tota
lSize=34, rawDataSize=32]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 2.13 sec HDFS Read: 4781 HDFS Write: 7
08 SUCCESS
Total MapReduce CPU Time Spent: 2 seconds 130 msec
Time taken: 19.541 seconds
hive>
```





11. List to top 5 highly paid employees.

```
Student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
hive> select max(salary) from emp limit 5;
Query ID = student_20171223113041_36053a5f-9ab7-429b-bf64-85878350f9ae
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 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>
```

```
🔊 🗐 📵 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.61 sec HDFS Read: 80
27 HDFS Write: 122 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 610 msec
15
       Anju
               Ceo
                       100000.0
                                       В
       Michael Ceo
                                       A
20
                      100000.0
12
       Harish Sales 60000.0 B
3
       Janet Sales 60000.0 A
               Admin
       Anne
                       50000.0 A
Time taken: 18.361 seconds, Fetched: 5 row(s)
hive>
```

12. List all admins whose salary is > 45000.

```
🔊 🗇 📵 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
hive> select * from emp where designation="Admin" and salary>45000;
OK
               Admin
                        50000.0 A
       Anne
2
       Gokul Admin 50000.0 B
4
5
9
       Hari
               Admin 50000.0 C
        Sanker Admin 50000.0 C
       Nancy
               Admin 50000.0 A
       Gopika Admin 50000.0 B
Time taken: 0.084 seconds, Fetched: 6 row(s)
hive>
```





13. Compute the average salary paid by the company to its employees.

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin

Time taken: 18.841 seconds, Fetched: 1 row(s)

hive> select avg(salary) from emp;

Query ID = student_20171223115254_ce7a3da0-5a4e-4890-8eb9-339632dd2367

Total jobs = 1

Launching Job 1 out of 1

Number of reduce tasks determined at compile time: 1
```

```
S Write: 8 SUCCESS
Total MapReduce CPU Time Spent: 4 seconds 90 msec

OK
49200.0
Time taken: 19.038 seconds, Fetched: 1 row(s)
hive>
```

14. Compute the total salary paid by the company per month.

```
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 4.14 sec HDFS Read: 7927 HDF S Write: 9 SUCCESS
Total MapReduce CPU Time Spent: 4 seconds 140 msec
OK
984000.0
Time taken: 19.06 seconds, Fetched: 1 row(s)
hive>
```





15. List the employee with the highest salary. List the employee with the minimum salary.

```
Student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
FS Write: 14 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 460 msec
OK
Anju 100000.0
Time taken: 16.876 seconds, Fetched: 1 row(s)
hive>
```

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
hive> select emp_Name,salary from emp ORDER BY salary asc limit 1;
Query ID = student_20171223114920_1822b8eb-761d-4288-bb49-f0257d31c2db
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
```

```
Student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
FS Write: 17 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 540 msec
OK
Margaret 12000.0
Time taken: 18.841 seconds, Fetched: 1 row(s)
hive>
```





16. Display DISTINCT salaries paid by the company.

```
S Write: 49 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 750 msec

OK
12000.0
40000.0
45000.0
50000.0
100000.0
Time taken: 18.349 seconds, Fetched: 6 row(s)
hive> select DISTINCT(salary) from emp;
```

17. List the employees with increasing order of salary paid.

```
🗐 📵 student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
S Write: 295 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 230 msec
Margaret
                12000.0
Nirmal 12000.0
Andrew 40000.0
Aarathi 40000.0
Robert 40000.0
Arun
        40000.0
Steven 45000.0
jinju
       45000.0
Parvathy
                45000.0
Laura
       45000.0
Anne
        50000.0
Gopika 50000.0
Nancy 50000.0
Sanker 50000.0
Hari
       50000 0
Gokul 50000.0
Harish 60000.0
Janet
        60000.0
Michael 100000.0
Anju
        100000.0
Time taken: 17.295 seconds, Fetched: 20 row(s)
hive>
```





- 18. Make two partitions of the table with the following criteria:
- A) Partition 1 consisting of employees having salary <=50000

```
Student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin

Time taken: 0.953 seconds
hive> create table state_part1(emp_ID int, emp_Name string,Designation varchar(20),Grade varchar(10)) PARTITIONED BY (Salary float);

OK

Time taken: 0.121 seconds
hive> set hive.exec.dynamic.partition = TRUE;
hive> set hive.exec.dynamic.partition.mode=nonstrict;
hive> insert overwrite table state_part1 PARTITION(Salary) select emp_ID,emp_Name
,Designation,Grade,Salary from emp where Salary<=50000;
```

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
        Time taken for load dynamic partitions: 433
        Loading partition {salary=12000.0}
        Loading partition {salary=40000.0}
        Loading partition {salary=45000.0}
        Loading partition {salary=50000.0}
        Time taken for adding to write entity: 0
Partition company.state part1{salary=12000.0} stats: [numFiles=1, numRows=2, tota
lSize=34, rawDataSize=32]
Partition company.state part1{salary=40000.0} stats: [numFiles=1, numRows=4, tota
lSize=79, rawDataSize=75]
Partition company.state part1{salary=45000.0} stats: [numFiles=1, numRows=4, tota
lSize=83, rawDataSize=79]
Partition company.state part1{salary=50000.0} stats: [numFiles=1, numRows=6, tota
lSize=97, rawDataSize=91]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 3.06 sec HDFS Read: 5315 HDFS Write: 54
2 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 60 msec
Time taken: 14.948 seconds
hive>
```





B) Partition 2 consisting of employees having salary > 50000

```
Student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin

Time taken: 0.953 seconds

hive> create table state_part1(emp_ID int, emp_Name string,Designation varchar(20),Grade varchar(10)) PARTITIONED BY (Salary float);

OK

Time taken: 0.121 seconds

hive> set hive.exec.dynamic.partition = TRUE;

hive> set hive.exec.dynamic.partition.mode=nonstrict;

hive> insert overwrite table state_part1 PARTITION(Salary) select emp_ID,emp_Name
,Designation,Grade,Salary from emp where Salary<=50000;
```

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
Moving data to: hdfs://localhost:9000/user/hive/warehouse/company.db/state part1/
.hive-staging hive 2017-12-23 14-18-52 951 4342634158954283683-1/-ext-10000
Loading data to table company.state part1 partition (salary=null)
         Time taken for load dynamic partitions: 244
        Loading partition {salary=60000.0}
        Loading partition {salary=100000.0}
        Time taken for adding to write entity: 0
Partition company.state_part1{salary=100000.0} stats: [numFiles=1, numRows=2, tot
alSize=31, rawDataSize=29]
Partition company.state part1{salary=60000.0} stats: [numFiles=1, numRows=2, tota
lSize=34, rawDataSize=32]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 3.12 sec HDFS Read: 5383 HDFS Write: 20
9 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 120 msec
OK.
Time taken: 13.198 seconds
hive> insert overwrite table state_part1 PARTITION(Salary) select emp_ID,emp_Name
Designation, Grade, Salary from emp where Salary>50000;
```





19. List the employees having salary between 50000 and 60000 in partition 2.

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin

hive> select salary,emp_name from state_part1 where salary BETWEEN 50000 AND 6000
0;
0K
50000.0 Anne
50000.0 Gokul
50000.0 Hari
50000.0 Sanker
50000.0 Nancy
50000.0 Gopika
60000.0 Janet
60000.0 Harish
Time taken: 0.111 seconds, Fetched: 8 row(s)
hive>
```

20. Create partition 3 for all Engineer having salary >=45000.

```
student@student-OptiPlex-3020: ~/Documents/apache-hive-1.2.1-bin
hive-staging hive 2017-12-23 14-31-03 607 3734833133284335793-1/-ext-10000
Loading data to table company.state_part2 partition (salary=null, designation=null
         Time taken for load dynamic partitions: 145
        Loading partition {salary=45000.0, designation=Engineer}
         Time taken for adding to write entity: 0
Partition company.state_part2{salary=45000.0, designation=Engineer} stats: [numFil
es=1, numRows=4, totalSize=47, rawDataSize=43]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 3.31 sec HDFS Read: 5479 HDFS Write: 158
SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 310 msec
Time taken: 12.786 seconds
hive> insert overwrite table state part2 PARTITION(Salary,Designation) select emp
ID,emp_Name,Grade,Salary,Designation from emp where Salary>=45000 AND Designation=
"Engineer";
```