

**EXPT.NO.8****Implement a program using Hive indexes**

```
hive> CREATE INDEX testIndex
>
> ON TABLE tblcustomer (age)
>
> AS 'org.apache.hadoop.hive.ql.index.compact.CompactIndexHandler'
>
> WITH DEFERRED REBUILD;
OK
Time taken: 0.361 seconds
```

```
hive> select * from tblcustomer where age = 55;
Total MapReduce jobs = 1
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_201801250814_0002, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201801250814_0002
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201801250814_0002
2018-01-25 08:41:48,716 Stage-1 map = 0%, reduce = 0%
2018-01-25 08:41:51,731 Stage-1 map = 100%, reduce = 0%
2018-01-25 08:41:52,744 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201801250814_0002
OK
4000001 Kristina Chung 55 Pilot
Time taken: 6.865 seconds
```

```
hive> drop index testIndex on tblcustomer;
OK
Time taken: 0.15 seconds
hive> select * from tblcustomer where age = 55;
Total MapReduce jobs = 1
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_201801250814_0003, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201801250814_0003
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201801250814_0003
2018-01-25 08:42:46,756 Stage-1 map = 0%, reduce = 0%
2018-01-25 08:42:49,772 Stage-1 map = 100%, reduce = 0%
2018-01-25 08:42:50,780 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201801250814_0003
OK
4000001 Kristina Chung 55 Pilot
Time taken: 6.705 seconds
hive> █
```

```
hive> drop index testIndex on tblcustomer;
OK
Time taken: 0.15 seconds
hive> select * from tblcustomer where age = 55;
Total MapReduce jobs = 1
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_201801250814_0003, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201801250814_0003
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201801250814_0003
2018-01-25 08:42:46,756 Stage-1 map = 0%, reduce = 0%
2018-01-25 08:42:49,772 Stage-1 map = 100%, reduce = 0%
2018-01-25 08:42:50,780 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201801250814_0003
OK
4000001 Kristina Chung 55 Pilot
Time taken: 6.705 seconds
█
```

## EXPT.NO.9

## Implement a program using Hive views

```
hive> select * from tblcustomer;
OK
4000001 Kristina      Chung  55      Pilot
4000002 Paige       Chen   74      Teacher
4000003 Sherri      Melton 34      Firefighter
4000004 Gretchen    Hill   66      Computer hardware engineer
4000005 Karen       Puckett 74      Lawyer
4000006 Patrick     Song   42      Veterinarian
4000007 Elsie       Hamilton 43      Pilot
4000008 Hazel       Bender  63      Carpenter
4000009 Malcolm     Wagner 39      Artist
4000010 Dolores     McLaughlin 60      Writer
Time taken: 1.327 seconds
hive> create view demoView as select id,fname,lname,age-5 from tblcustomer;
OK
Time taken: 0.415 seconds
hive> select * from demoView;
Total MapReduce jobs = 1
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_201801250814_0001, Tracking URL = http://localhost:50030/jobdetails.jsp?jobid=job_201801250814_0001
Kill Command = /usr/lib/hadoop/bin/hadoop job -Dmapred.job.tracker=localhost:8021 -kill job_201801250814_0001
2018-01-25 08:18:41,623 Stage-1 map = 0%, reduce = 0%
2018-01-25 08:18:45,690 Stage-1 map = 100%, reduce = 0%
2018-01-25 08:18:46,707 Stage-1 map = 100%, reduce = 100%
Ended Job = job_201801250814_0001
OK
4000001 Kristina      Chung  50
4000002 Paige       Chen   69
4000003 Sherri      Melton 29
4000004 Gretchen    Hill   61
4000005 Karen       Puckett 69
4000006 Patrick     Song   37
4000007 Elsie       Hamilton 38
4000008 Hazel       Bender  58
4000009 Malcolm     Wagner 34
4000010 Dolores     McLaughlin 55
Time taken: 10.33 seconds
hive> drop view demoView;
OK
Time taken: 0.943 seconds
```