Command to create the external table in Hive:

hive> create external table employees (name string, job_title string, dept string, term string, salary_type string, t_hours float, annual_salary float, hourly_rate float) row format serde 'org.apache.hadoop.hive.serde2.OpenCSVSerde' with serdeproperties("separatorChar" = "\,", "quoteChar" = "\"", "escapeChar" = "\\") stored as textfile TBLPROPERTIES ("skip.header.line.count"="1");

Command to load data in Hive table:

hive> load data local inpath '/home/cloudera/ChicagoEmployeesDataset.csv' overwrite into table employees;

Here are 3 queries in below with screenshot. I have run these queries in the terminal and showing the output in the terminal. I had issue with the resource of the laptop that's why I could not show the query result in UI.

To solve the issues with the data casting view could be created using the following command

Create the view for the **employees** table:

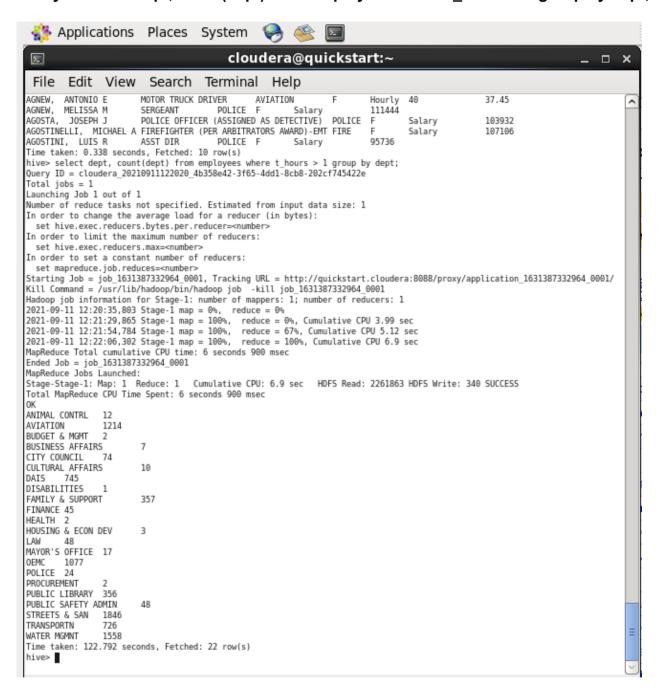
CREATE VIEW employees_view AS SELECT name, job_title, dept, CAST(term AS VARCHAR(1)), salary_type, CAST(t_hours AS FLOAT), CAST(annual_salary AS FLOAT), CAST(hourly_rate AS FLOAT) FROM employees;

I did not load and query in the new view table(**employees_view**), instead I have used the **employee** table to run all my query. Hope that's on with you.

Query 1: select * from employees where annual_salary > 40000 order by annual_salary desc limit 10;

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cloudera@quickstart:~
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File Edit View Search Terminal Help
Time taken: 122.792 seconds, Fetched: 22 row(s)
hive> select * from employees where annual salary > 40000 order by annual salary desc limit 10;
Query ID = cloudera 20210911122626 77e73bfd-0696-4e5f-88f5-5e645ca56b96
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>
Starting Job = job_1631387332964_0002, Tracking URL = http://quickstart.cloudera:8088/proxy/application_1631387332964_0002/
Kill Command = /usr/lib/hadoop/bin/hadoop job -kill job_1631387332964_0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2021-09-11 12:26:15,681 Stage-1 map = 0%, reduce = 0%
2021-09-11 12:27:16,674 Stage-1 map = 0%, reduce = 0%
2021-09-11 12:27:18,028 Stage-1 map = 67%, reduce = 0%, Cumulative CPU 7.17 sec
2021-09-11 12:27:19,106 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 7.86 sec
2021-09-11 12:27:30,944 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 10.9 sec
MapReduce Total cumulative CPU time: 10 seconds 900 msec
Ended Job = job 1631387332964 0002
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 10.9 sec HDFS Read: 2262823 HDFS Write: 590 SUCCESS
Total MapReduce CPU Time Spent: 10 seconds 900 msec
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PALUMBO, EDWARD J
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SANTIAGO, WILFREDO
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Time taken: 90.71 seconds, Fetched: 10 row(s)
hive>
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Query 2: select dept, count(dept) from employees where t_hours > 1 group by dept;



Query 3: Select * from employees limit 10;

