Problem Statement:

CSV file contains following columns:

color,director_name,num_critic_for_reviews,duration,director_facebook_likes,actor_3_facebook_likes, actor_2_name,actor_1_facebook_likes,gross,genres,actor_1_name,movie_title,num_voted_users,cast_t otal_facebook_likes,actor_3_name,facenumber_in_poster,plot_keywords,movie_imdb_link,num_user_f or_reviews,language,country,content_rating,budget,title_year,actor_2_facebook_likes,imdb_score,aspe ct_ratio,movie_facebook_likes

Copy data to local system:

Wget

https://raw.githubusercontent.com/ruchisahu/dataAnalysis_cloud9/master/IMDB/imdb-5000-movie-dataset/movie_metadata.csv

Transfer this data to new folder IMDB(from downloads to home directory)

Copy data into HDFS:

Created new directory IMDB in tmp folder of hdfs:

[cloudera@quickstart ~]\$ hdfs dfs -mkdir /tmp/IMDB/

Transfer IMDB local folder to IMDB hdfs:

[cloudera@quickstart ~]\$ hdfs dfs -put /home/cloudera/IMDB /tmp/IMDB Let's check our folder:

[cloudera@quickstart ~]\$ hdfs dfs -ls /tmp/IMDB/

Files:

Start command line interface:

Beeline as the command-line interface [cloudera@quickstart ~]beeline -u jdbc:hive2://

Show database:

jdbc:hive2://> show databases;
OK
+-----+
| tab_name |
+-----+-+
+-------+--+

Creating the Table in Hive:

```
idbc:>>>
CREATE TABLE imdb(
color string,
director_name string,
num_critic_for_reviews string,
duration string,
director_facebook_likes string,
actor_3_facebook_likes bigint,
Actor_2_name string,
Actor_1facebooklikes string,
Gross bigint,
genres int,
actor_1_name string,
movie_title int,
Num_voted_users int,
Cast_total_facebook_likes int,
Actor_3_name string,
Facenumber_in_poster string,
Plot_keywords string,
Movie_imdb_link string,
Num_user_for_reviews int,
Language string,
Country string,
Content_rating string,
Budget int,
Title_year int,
Actor_2_facebook_likes int,
Imdb_score int,
Aspect ratio int,
Movie_facebook_likes int)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
TBLPROPERTIES ('skip.header.line.count'='1');
```

Loading IMDB data into hive table:

 $0: jdbc: hive 2: //> LOAD\ DATA\ INPATH\ '/tmp/IMDB/IMDB'\ OVERWRITE\ INTO\ TABLE\ imdb; \\ Loading\ data\ to\ table\ default.imdb$

Table default.imdb stats: [numFiles=1, numRows=0, totalSize=1489644, rawDataSize=0] OK

Retrieving the Data:

To retrieve the data, the select command is used.

```
Select DISTINCT
director_name from imdb;
.....
Select COUNT(DISTINCT director_name )from imdb;
8/04/26 16:18:45 [HiveServer2-Background-Pool: Thread-56]: WARN mapreduce.Counters: Group
org.apache.hadoop.mapred.Task$Counter is deprecated. Use
org.apache.hadoop.mapreduce.TaskCounter instead
2018-04-26 16:18:45,824 Stage-1 map = 0%, reduce = 0%
2018-04-26 16:18:52,147 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.33 sec
2018-04-26 16:18:58,471 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 4.38 sec
MapReduce Total cumulative CPU time: 4 seconds 380 msec
Ended Job = job_1524770188000_0005
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 4.38 sec HDFS Read: 1501458 HDFS Write: 5
SUCCESS
Total MapReduce CPU Time Spent: 4 seconds 380 msec
OK
+----+
| _c0 |
+----+
| 2399 |
+----+
1 row selected (22.041 seconds)
......
SELECT actor_3_facebook_likes
FROM imdb
WHERE Imdb_score>7;
04
| 250
670
| 6
| 21
| 51
| 93
0
| 131
| 178
| 27
```

0

27	
NULL	1
56	İ
50	İ
117	İ
476	İ
130	i
+	· +
	ted (0.786 seconds)
Difference bety	ween avg,min and max Budget
select avg(Budg	get) from imdb;;
Total ManDadu	use CDIL Time Spents 2 seconds 700 mses
OK	ice CPU Time Spent: 3 seconds 790 msec
+	
_c0 +	
3.527481639	
+	·
	(22.644 seconds)
110W Sciected	(22.044 30001103)
select min(Rud	get) from imdb;
	ice CPU Time Spent: 3 seconds 420 msec
OK	ice et o time spetit. 3 seconds 420 msec
++	
_c0	
1_00	
218	
Z10 ++	
тт	
select max(Bud	lget) from imdb;
sereet man(bad	get, wom mas,
Total MapRedu	ice CPU Time Spent: 3 seconds 440 msec
OK	
++	
_c0	
+++	
2127519898	
†++	·
·	

```
select Actor_2_name from imdb where Budget>4.5 limit 5;
ОК
+----+
actor_2_name |
+----+
| Joel David Moore |
| Orlando Bloom |
| Rory Kinnear
| Christian Bale |
| Samantha Morton |
+----+
.....
0: jdbc:hive2://> select Actor_2_name from imdb where Budget>4.5 and Imdb_score>8 limit 5;
18/04/27 15:37:28 [main]: WARN lazy.LazyStruct: Extra bytes detected at the end of the row! Ignoring
similar problems.
+----+
| actor_2_name |
+----+
| Heath Ledger |
| Jeffrey DeMunn |
| Al Pacino
| Marlon Brando |
| T.J. Storm
+----+
```