## **External Table without Partition**

## Slide #42

```
[root@sandbox-hdp ~] # hdfs dfs -mkdir /user/anup/happinessreport
[root@sandbox-hdp ~] # hdfs dfs -put /home/hdfs/2019.csv /user/anup/happinessreport
[root@sandbox-hdp ~] #
[root@sandbox-hdp ~] # hdfs dfs -chmod 777 /user/anup/happinessreport
[root@sandbox-hdp ~] # hdfs dfs -chmod 777 /user/anup/happinessreport/2019.csv
[root@sandbox-hdp ~] # | |
```

```
[root@sandbox-hdp ~] # hdfs dfs -ls /user/anup/happinessreport
Found 1 items
-rwxrwxrwx 1 root hdfs 8667 2020-05-23 20:11 /user/anup/happinessreport/2019.csv
```

# Slide #43

```
[root@sandbox-hdp ~] # hive
log4j:WARN No such property [maxFileSize] in org.apache.log4j.DailyRollingFileAppender.

Logging initialized using configuration in file:/etc/hive/2.6.5.0-292/0/hive-log4j.properties
hive> create external table 2019_ext(overall_rank int,country_region string,score int,GDP_per_capita int,social_support int,healthy_life_expectancy int,freedo
m_to_make_life_choices int,generosity int, perceptions_of_corruption int)
> row format delimited
> fields terminated by ','
> stored as textfile
> location '/user/anup/happinessreport';
OK
Time taken: 188.944 seconds
hive> show tables;
OK
2019_ext
Time taken: 0.321 seconds, Fetched: 1 row(s)
```

#### Slide #45

#### Slide #46

```
hive> describe formatted 2019 ext;
OK
# col name
                      data type
                                               comment
overall rank
                      int
country_or_region
                     string
                       float
score
gdp_per_capita
                      float
social support
                      float
healthy_life_expectancy float
freedom_to_make_life_choices
                               float
                float
generosity
perceptions of corruption
                              float
# Detailed Table Information
Database:
                     default
                      root
Owner:
CreateTime:
                       Sat May 23 22:48:50 UTC 2020
                      UNKNOWN
LastAccessTime:
Protect Mode:
                      None
                      0 hdfs://sandbox-hdp.hortonworks.com:8020/user/anup/happinessreport EXTERNAL_TABLE
Retention:
Location:
Table Type:
Table Parameters:
       EXTERNAL
                               TRUE
       numFiles
                               17176
        totalSize
        transient lastDdlTime 1590274392
```

```
hive> select * from 2019_ext limit 5;
OK

NULL Country_or_region NULL NULL NULL NULL NULL NULL NULL

1 Finland 7.769 1.34 1.587 0.986 0.596 0.153 0.393
2 Denmark 7.6 1.383 1.573 0.996 0.592 0.252 0.41
3 Norway 7.554 1.488 1.582 1.028 0.603 0.271 0.341
4 Iceland 7.494 1.38 1.624 1.026 0.591 0.354 0.118
Time taken: 0.172 seconds, Fetched: 5 row(s)
```

# Calculating the mean of values column for the top one-third of countries, middle and bottom one-third.

```
hive> select avg(score) from 2019 ext where overall rank between 1 and 52;
Query ID = root_20200523234511_3831ead7-d46b-4cab-bbcf-c517a500886e
Total jobs = 1
Launching Job 1 out of 1
Tez session was closed. Reopening...
Session re-established.
Status: Running (Executing on YARN cluster with App id application 1590192907351 0022)
______

      Map 1 .....
      SUCCEEDED
      1
      1
      0
      0
      0

      Reducer 2 .....
      SUCCEEDED
      1
      1
      0
      0
      0

                                                         0
                                                                        0
_____
VERTICES: 02/02 [==================>>] 100% ELAPSED TIME: 61.20 s
OK
6.644807678002578
Time taken: 80.564 seconds, Fetched: 1 row(s)
```

Query ID = ro Total jobs = Launching Job Status: Runni	1 1 out	of 1	_					2907351_	0022)
VERTI	CES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED	
Map 1 Reducer 2				1 1	0 0	0	0 0	0 0	
VERTICES: 02/	02 [=			=====>>]	100% EL	APSED TIM	E: 5.97	s 	
OK 4.17019227834 Time taken: 6		seconds. Fe	tched:	1 row(s)					

Rank of Country	Average Happiness Score							
1-52	6.64							
53-104	5.41							
105-156	4.17							

);	jdbc:hive2	://sandbo	x-hdp.hor	tonwor	ks.com	:2>	CREATE EXTERNAL	TABLE IF N	OT EXIS	TS mozilla	4_external_ı	part(`Key`	int,`id`	int,`star	t`int,	end`	int,`ev	rent`	int,`size	`int,	`state`	int)
						,>	COMMENT 'Mozilla	a class siz	es'													
						,>	ROW FORMAT DELII	MITED														
						,>	FIELDS TERMINAT	ED BY ','														
						,>	STORED AS TEXTE	ILE														
						,>	LOCATION '/user	/wangjh/par	t';													
		• •						100														