CIS-5200 MID-TERM EXAM-1 Prof. Jongwook Woo

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Question 1:

Downloading the file to my Oracle Cloud server using wget command.

wget -O baseball_salaries_2003.txt https://s3.amazonaws.com/hipicdatasets/baseball_salaries_2003.txt



Question 2:

Uploading the file using hdfs command to the HDFS directory "baseball_salaries" of Oracle Cloud.

Changing the permission of the file.

Displaying the result.

hdfs dfs -mkdir baseball_salaries

hdfs dfs -chmod -R o+w baseball_salaries

hdfs dfs -put baseball_salaries_2003.txt baseball_salaries

hdfs dfs -ls baseball_salaries



Connecting to beeline.

beeline

!connect jdbc:hive2://cis5200-bdcsce-4.compute-608214094.oraclecloud.internal:2181,cis5200-bdcsce-2.compute-608214094.oraclecloud.internal:2181,cis5200-bdcsce-3.compute-608214094.oraclecloud.internal:2181/;serviceDiscoveryMode=zooKeeper;zooKeeperNamespace=hiveserve r2?tez.queue.name=interactive bdcsce_admin



Question 3:

Creating table baseball_salaries by using my Database nmandya.

USE nmandya;

DROP TABLE IF EXISTS baseball_salaries;

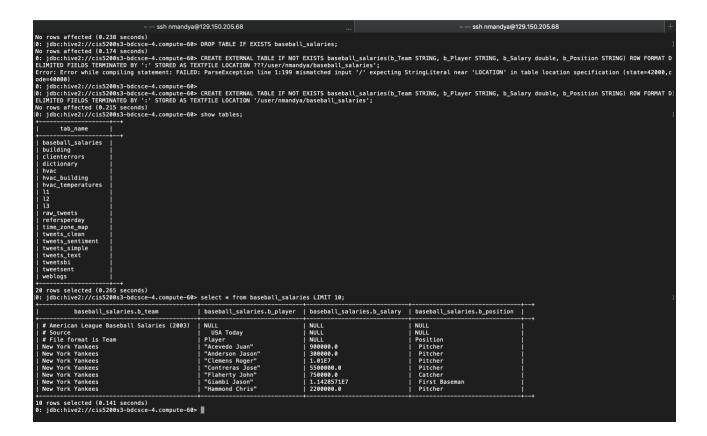
CREATE EXTERNAL TABLE IF NOT EXISTS baseball_salaries(b_Team STRING, b_Player STRING, b_Salary double, b_Position STRING) ROW FORMAT DELIMITED FIELDS TERMINATED BY ':' STORED AS TEXTFILE LOCATION '/user/nmandya/baseball_salaries';

show tables;

Question 4:

HiveQL to query 10 data from table "baseball_salaries".

select * from baseball_salaries LIMIT 10;



Question 5:

HiveQL to query top 5 data ordered by the highest "Salary" column from the table "baseball_salaries" select * from baseball_salaries ORDER BY b_salary DESC LIMIT 5;



Question 6:

HiveQL of the lowest 5 data ordered by the "Salary" column from the table at the position of "First Baseman".

select * from baseball_salaries where b_position like "% First Baseman%" ORDER BY b_salary ASC LIMIT 5;

~ — ssh nmandya@129.150.205.68 ~ — ssh nmandya@129.150.205.68				
New York Yankees New York Yankees	"Anderson "Clemens R "Contreras "Flaherty "Giambi Ja "Hammond C	oger" 1.01E7 Jose" 550000.0 John" 750000.0 son" 1.1428571E	Pitche Pitche Pitche Catche First Pitche	r r Baseman
10 rows selected (0.141 seconds) (0: jdb::hive2://cis520033-bdcsce-4.compute-60> select * from baseball_salaries ORDER BY b_salary DESC LIMIT 5; INFO : Tez session hasn't been created yet. Opening session INFO : Dag name: select * from baseball_salaries ORDER BY5(Stage-1) INFO :				
INFO : Status: Running (Executing on YARN cluster with App id application_1546000432950_0285)				
INFO: Map 1: -/- Reducer 2: 0/1 INFO: Map 1: 0/1 Reducer 2: 0/1 INFO: Map 1: 1/1 Reducer 2: 0/1 INFO: Map 1: 1/1 Reducer 2: 0/1 INFO: Map 1: 1/1 Reducer 2: 0/1) INFO: Map 1: 1/1 Reducer 2: 1/1				
baseball_salaries.b_team	baseball_salaries.b_player	baseball_salaries.b_salary	baseball_salaries.b_posit	ion
Texas Rangers Boston Red Sox Toronto Blue Jays New York Yankees Boston Red Sox	"Rodriguez Alex" "Ramirez Manny" "Delgado Carlos" "Jeter Derek" "Martinez Pedro"	2.2E7 2.0E7 1.8FF 1.56E7 1.55E7	Shortstop Outfielder First Baseman Shortstop Pitcher	
5 rows selected (17.742 seconds) (0: jdbc:hive2://cis520033-bdcsce-4.compute-60> select * from baseball_salaries where b_position like "% First Baseman%" ORDER BY b_salary ASC LIMIT 5; INFO : Session is already open INFO : Dag name: select * from baseball_salaries where b5(Stage-1) INFO :				
INFO : Status: Running (Executing on YARN cluster with App id application_1546000432950_0285)				
INFO : Map 1: 8/-1 Reducer 2: 8/1 INFO : Map 1: 8(-1)/1 Reducer 2: 8/1 INFO : Map 1: 1/1 Reducer 2: 1/1				
baseball_salaries.b_team	baseball_salaries.b_player	baseball_salaries.b_salary	baseball_salaries.b_posit	ion
Kansas City Royals Cleveland Indians Cleveland Indians Detroit Tigers Toronto Blue Jays	"Harvey Ken" "Hafner Travis" "Broussard Benjamin" "Pena Carlos" "Phelps Josh"	300000.0 302200.0 303000.0 310000.0 320000.0	First Baseman First Baseman First Baseman First Baseman First Baseman	
forws selected (6.809 seconds) for jdbc:hive2://cis5200s3-bdcsce-4.compute-60>				

Question 7:

HiveQL to determine the average salary of the players in each position.

select b_position, AVG(b_salary) as AverageSalary from baseball_salaries where b_position != "NULL" AND b_position != "Position" GROUP BY b_position ;