		Hope Foundation's Finolex Academy of Management and Technology, Ratnagiri			
		Information Technology Department			
Subject name: Big Data Lab			Subject Code: ITC801		
Class	BE IT	Semester – VIII (CBGS)		Academic year: 2019-20	
Name of Student	Kazi Jawwad A Rahim		QUIZ Score :		
Roll No	28	Assignment/Experiment No.		02	
Title: Execution of Hive SQL Queries on Hadoop by using HUE interface					
1. Course objectives applicable COB1. To understand main business drivers and key issues of BDA COB2. To acquire knowledge about fundamentals of Big Data Analytics COB4 – To handle larger database through BDA framework					
2. Course outcomes applicable: CO1 : Understand the key issues in big data management and its associated applications in intelligent business and scientific computing. CO2 - Acquire fundamental enabling techniques and scalable algorithms like Hadoop, Map Reduce and NO SQL in big data analytics. COB4. Implement use of combiners to consolidate results and ability to handle larger datasets					
3. Learning Objectives: <ol style="list-style-type: none"> To understand the concept of Hadoop User Interface To understand the functioning of Hive SQL, Pig To Execute Hive SQL Query To Execute Pig Script 					
4. Practical applications of the assignment/experiment: Hue is a widely used GUI dashboard for Hadoop					
5. Prerequisites: <ol style="list-style-type: none"> Knowledge of Hadoop Ecosystem Knowledge of basic SQL queries 					
6. Hardware Requirements: <ol style="list-style-type: none"> PC with 4GB RAM, 500GB HDD 					
7. Software Requirements: <ol style="list-style-type: none"> Ubuntu / Windows , access to internet www.gethue.com 					
8. Quiz Questions (if any): (Online Exam will be taken separately batchwise, attach the certificate/ Marks obtained) <ol style="list-style-type: none"> What is a Hadoop? What is SQL? What is Pig Latin? What is Hue? In which language Hue interface is programmed? 					
Sr. No.	Parameters			Marks obtained	Out of
1	Technical Understanding (Assessment may be done based on Q & A <u>or</u> any other relevant method.) Teacher should mention the other method used -				6
2	Neatness/presentation				2
3	Punctuality				2
Date of performance (DOP)			Total marks obtained		10
Date of checking (DOC)			Signature of teacher		

Some high risks were detected.

```

57
58
59 -- the objective is to find the JIRAs in Hue where there are multiple SFDc tickets linked
60 -- it reveals the soft spots in the product
61
62
63 SELECT sfdc.jira_c.name,
64        sfdc.jira_c.jira_summary_c,
65        count(jira_c.name) AS tickets
66 FROM sfdc.cases, sfdc.jira_c, jira.ticket
67 WHERE sfdc.cases.component_c IN ('Hue')
68       AND sfdc.jira_c.case_c = sfdc.cases.id
69       AND jira.ticket.issuekey = sfdc.jira_c.name
70       AND jira.ticket.statusname NOT IN ('Resolved', 'closed')
71       AND sfdc.jira_c.name NOT LIKE 'CLRX'
72 GROUP BY jira_c.name, jira_c.jira_summary_c
73 HAVING count(jira_c.name) > 1
74 ORDER BY count(jira_c.name) DESC
75

```

Query History | Saved Queries | Results (19)

	name	jira_summary_c	tickets
1	CDH-45011	Improve interaction between Hue and Impala	66
2	CDH-51313	Tracking jira document2 upgrade 5.7 and below to 5.8 and above	47
3	OPSAPS-25666	Offer option in add service wizard to automatically set as a dependency for another service	16
4	CDH-46194	Security analysis for Hue security jiras	15
5	CDH-46197	Improve integration between Hue and HiveServer2	14
6	OPSAPS-27028	Ease of Embedded DB Causing Frustration and Database Migration Asks	11
7	OPSAPS-39656	Hue needs Load Balancer parameter for SPNEGO auth	10
8	OPSAPS-28330	We should automatically add the value of ldap_username in Hue to hive and impala proxy users	8
9	OPSAPS-24974	Add LDAP Properties for HS2 and Impala to Hue	8

Figure 1. Hadoop Hue Web Interface

2. Precautions :

1. Internet should be active
2. Copy the Query and its output before executing next query

3. Installation Steps / Performance Steps -

1. Open www.gethue.com, login with : Username – demo, password: demo
2. Select SQL Menu and it will display the databases

SQL

Tables (7)

Filter...

- canada_facts
- employee
- s2
- sample_07
- sample_08
- simple
- web_logs

Query Editor:

```

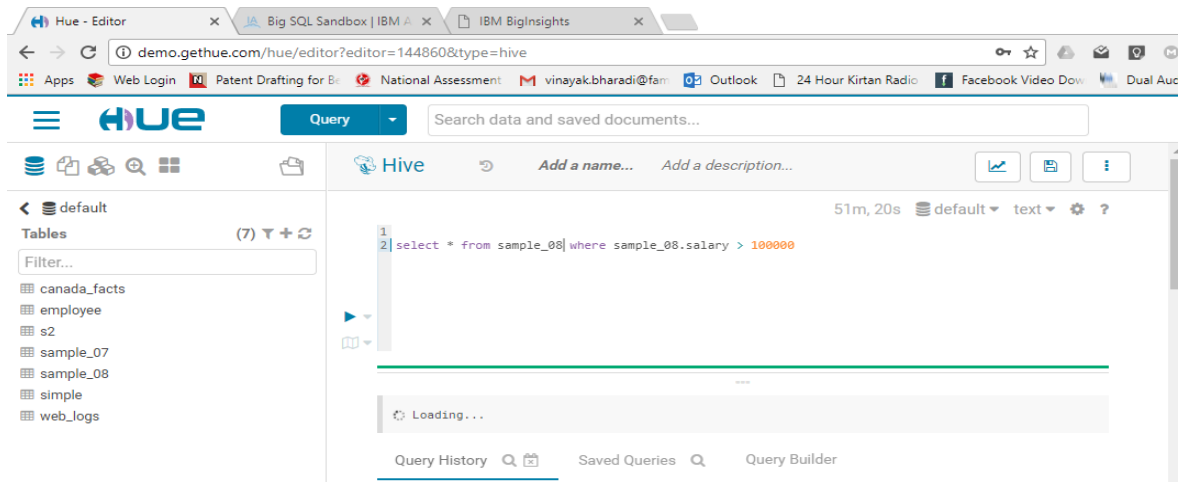
1 Example: SELECT * FROM tablename, or press CTRL +

```

Query History | Saved Queries

10 minutes ago | SELECT * FROM campa

3. Write a Query on available tables :



4. Execute the Query:

4.Observations

List observations here (if any)

5. Results:

```
1 CREATE DATABASE PROFESSIONALJK;
```

```
INFO : Starting task [Stage-0:DDL] in serial mode
INFO : Completed executing command(queryId=hive_20200115061824_b8f077d8-043e-4208-b605-ef85fb60697c); Time taken: 0.073 seconds
INFO : OK
```

✓ Success.

```
1 USE PROFESSIONALJK;
```

```
06/). USE PROFESSIONALJK
```

```
INFO : Starting task [Stage-0:DDL] in serial mode
```

```
INFO : Completed executing command(queryId=hive_20200115062212_40ef7538-dfde-4d4a-945d-  
ce6b91a8dcba); Time taken: 0.005 seconds
```

```
INFO : OK
```

✓ Success.

```
1 CREATE TABLE PROFESSIONALJK.TEST(ID INT, NAME VARCHAR(20));
```

```
07/). CREATE TABLE PROFESSIONALJK.TEST(ID INT, NAME VARCHAR(20))
```

```
INFO : Starting task [Stage-0:DDL] in serial mode
```

```
INFO : Completed executing command(queryId=hive_20200115062436_66ae2000-1732-43f4-9142-  
3e6a27e4d307); Time taken: 0.054 seconds
```

```
INFO : OK
```

✓ Success.

```
1 | SELECT * FROM PROFESSIONALJK.TEST;
```

10:00:00

Query History	Saved Queries	Query Builder	<u>Results (1)</u>
test.id		test.name	
1 1		JAWWAD	

References :

- [1] Apache Licence : <https://github.com/cloudera/hue#license>
- [2] Hue Live Interface available at : <http://demo.gethue.com/hue/accounts/login/?next=/>