	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:
1. To understand the concept of Hadoop User Interface
2. To understand the functioning of Hive SQL, Pig
3. To Execute Hive SQL Query
4. To Execute Pig Script

4. Practical applications of the assignment/experiment: Hue is a widely used GUI dashboard for Hadoop

5. Prerequisites:
1. Knowledge of Hadoop Ecosystem
2. Knowledge of basic SQL queries

6. Hardware Requirements:
1. PC with 4GB RAM, 500GB HDD

7. Software Requirements:
1. 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)
1. What is a Hadoop?
2. What is SQL?
3. What is Pig Latin?
4. What is Hue?
5. 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 **or** 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**		

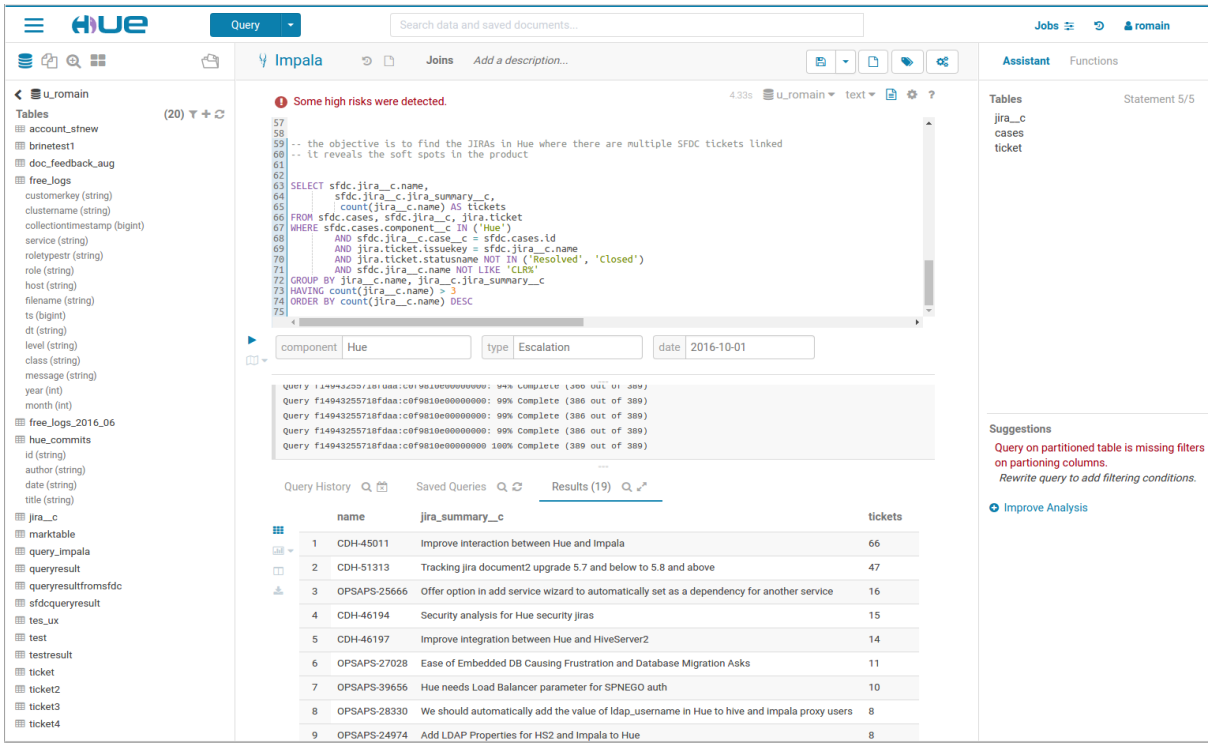


Figure 1. Hadoop Hue Web Interface

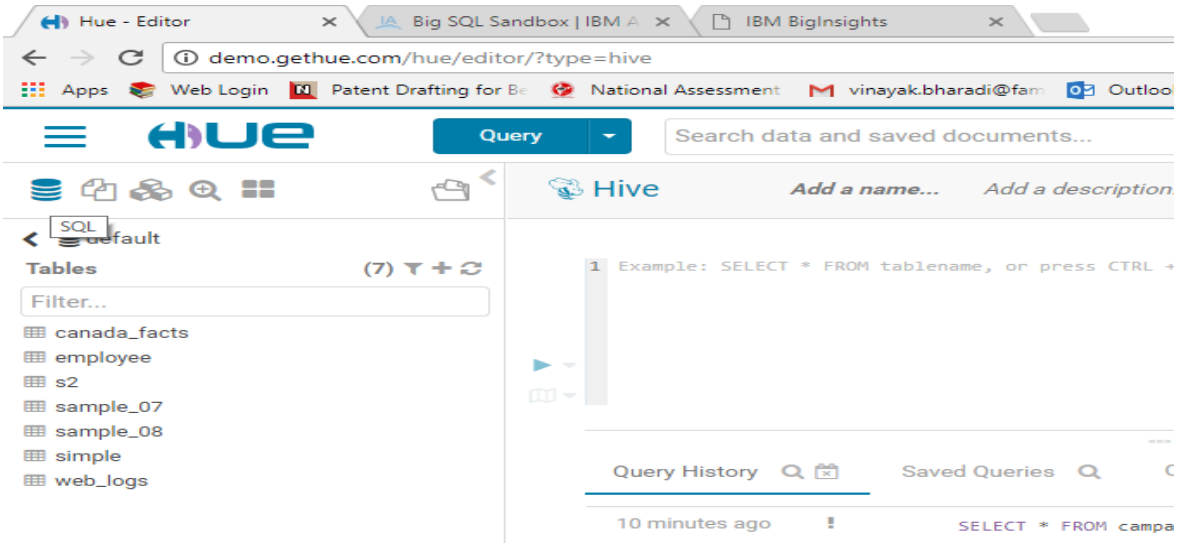
2. Precautions :

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

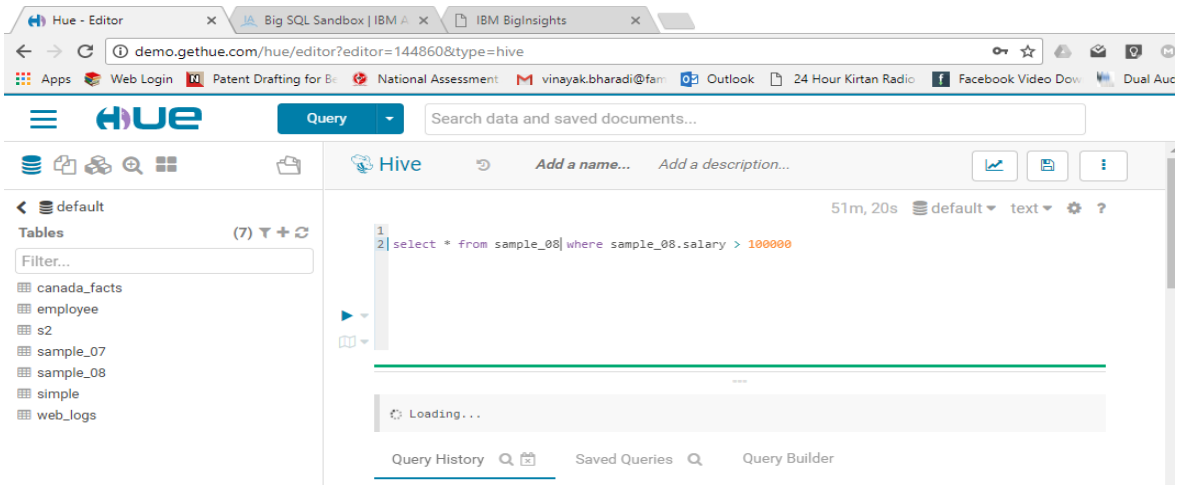
3. Installation Steps / Performance Steps -

1. Open www.gethue.com, login with : Username – demo, password: demo

2. Select SQL Menu and it will display the databases



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;
```

```
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));
```

```
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;
```

Query History | Saved Queries | Query Builder | Results (1)

	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=/