

# DS Assignment Group -B1

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```
[cloudera@quickstart ~]$ impala-shell
```

Starting Impala Shell without Kerberos authentication

Connected to quickstart.cloudera:21000

Server version: impalad version 2.10.0-cdh5.13.0 RELEASE (build 2511805f1eaa991df1460276c7e9f19d819cd4e4)

\*\*\*\*\*

Welcome to the Impala shell.

(Impala Shell v2.10.0-cdh5.13.0 (2511805) built on Wed Oct 4 10:55:37 PDT 2017)

When pretty-printing is disabled, you can use the '--output\_delimiter' flag to set the delimiter for fields in the same row. The default is ','.

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```
[quickstart.cloudera:21000] > SHOW DATABASES;
```

Query: show DATABASES

name	comment
_impala_builtins	System database for Impala builtin functions
default	Default Hive database
info	

Fetches 3 row(s) in 0.10s

```
[quickstart.cloudera:21000] > CREATE DATABASE mydb;
```

Query: create DATABASE mydb

Fetches 0 row(s) in 0.17s

```
[quickstart.cloudera:21000] > USE mydb;
```

Query: use mydb

```
[quickstart.cloudera:21000] > CREATE TABLE students(roll INT, name STRING, gender STRING, dob DATE, gpa FLOAT);
```

Query: create TABLE students(roll INT, name STRING, gender STRING, dob DATE, gpa FLOAT)

ERROR: AnalysisException: Unsupported data type: DATE

```
[quickstart.cloudera:21000] > ALTER TABLE students ADD COLUMNS (branch STRING);
```

```
Query: alter TABLE students ADD COLUMNS (branch STRING)
```

Fetches 0 row(s) in 4.31s

```
[quickstart.cloudera:21000] > DESC students;
```

```
Query: describe students
```

name	type	comment
roll	int	
name	string	
gender	string	
dob	timestamp	
gpa	float	
branch	string	

Fetches 6 row(s) in 0.12s

```
ry: insert INTO students VALUES(101,'Priya','Female','1999-10-12',8.32,'IT')
```

```
Query submitted at: 2024-04-20 20:47:43 (Coordinator: http://quickstart.cloudera:25000)
```

```
Query progress can be monitored at:
```

```
http://quickstart.cloudera:25000/query_plan?query_id=3f4742e2d35a6dc7:7c37d9e200000000
```

Modified 1 row(s) in 0.11s

```
[quickstart.cloudera:21000] > INSERT INTO students VALUES(102,'Abhijit Sharma','Male','1999-11-10',8.66,'Electrical'), (103, 'Amit Tripathi', 'Male', '2001-06-24',8.11,'IT');
```

```
Query: insert INTO students VALUES(102,'Abhijit Sharma','Male','1999-11-10',8.66,'Electrical'), (103, 'Amit Tripathi', 'Male', '2001-06-24',8.11,'IT')
```

```
Query submitted at: 2024-04-20 20:49:37 (Coordinator: http://quickstart.cloudera:25000)
```

```
Query progress can be monitored at:
```

```
http://quickstart.cloudera:25000/query_plan?query_id=3d45feda8a31084d:1254816500000000
```

Modified 2 row(s) in 0.12s

```
[quickstart.cloudera:21000] > SELECT * FROM students;
```

```
Query: select * FROM students
```

```
Query submitted at: 2024-04-20 20:49:50 (Coordinator: http://quickstart.cloudera:25000)
```

```
Query progress can be monitored at:
```

```
http://quickstart.cloudera:25000/query\_plan?query\_id=ef4831ad95afeefe:5989aae000000000
```

roll	name	gender	dob	gpa	branch
102	Abhijit Sharma	Male	1999-11-10 00:00:00	8.659999847412109	Electrical
103	Amit Tripathi	Male	2001-06-24 00:00:00	8.109999656677246	IT
101	Ravi Kumar	Male	1998-05-15 00:00:00	7.800000190734863	Computer Science
101	Priya	Female	1999-10-12 00:00:00	8.319999694824219	IT

-----  
+

Fetchd 4 row(s) in 0.38s

[quickstart.cloudera:21000] > SELECT gender, AVG(gpa) FROM students GROUP BY gender;;

Query: select gender, AVG(gpa) FROM students GROUP BY gender

Query submitted at: 2024-04-20 21:01:06 (Coordinator: http://quickstart.cloudera:25000)

Query progress can be monitored at:

http://quickstart.cloudera:25000/query\_plan?query\_id=32482b1564fd3a89:b8ada0a000000000

gender	avg(gpa)
Male	7.117499947547913
Female	5.206666549046834

Fetchd 2 row(s) in 0.26s

[quickstart.cloudera:21000] > SELECT branch, AVG(gpa) AS avg\_gpa FROM students GROUP BY branch ORDER BY avg\_gpa;

Query: select branch, AVG(gpa) AS avg\_gpa FROM students GROUP BY branch ORDER BY avg\_gpa

Query submitted at: 2024-04-20 21:03:22 (Coordinator: http://quickstart.cloudera:25000)

Query progress can be monitored at:

http://quickstart.cloudera:25000/query\_plan?query\_id=714e46f6e6167d46:a02e0c7000000000

branch	avg_gpa

Computer Science	5.850000143051147
Electrical	6.179999947547913
IT	6.676666418711345

+-----+-----+

Fetchd 3 row(s) in 0.17s

The screenshot shows the Hue web interface running in a VM. The interface is titled "Hue - Editor - Mozilla Firefox" and shows a successful SQL query execution. The query is:

```
1 INSERT INTO students (roll, name, gender, dob, gpa, branch)
2 VALUES
3 (104, 'Neha Sharma', 'Female', '1998-09-25 00:00:00', 3.6, 'IT'),
4 (105, 'Sandeep Gupta', 'Male', '1997-07-12 00:00:00', 3.9, 'Computer Science'),
5 (106, 'Pooja Verma', 'Female', '1999-03-18 00:00:00', 3.7, 'Electrical');
```

The query history shows the query was executed successfully "a minute ago". The results of the query are displayed in the "Tables" section on the right, showing the "students" table with 3 rows.

The interface also shows a sidebar with "Tables" and "students" listed. The "Tables" section on the right shows the "students" table with 3 rows.

cloudera-quickstart-vm-5.13.0-0-vmware - VMware Workstation 17 Player (Non-commercial use only)

Player

Applications Places System

Hue - Editor - Mozilla Firefox

quickstart.cloudera:8888/hue/editor?editor=64

Cloudera Hue Hadoop HBase Impala Spark Solr Oozie Cloudera Manager Getting Started

Query

Search data and saved documents...

Jobs cloudera

Impala Add a name... Add a description...

mydb Tables students

(1) T +

SELECT \* FROM students;

0s mydb text ?

Assistant Functions

Tables

Search...

mydb.students

Query History Saved Queries Results (7)

	roll	name	gender	dob	gpa	branch
1	101	Ravi Kumar	Male	1998-05-15 00:00:00	7.8000001907348633	Computer Science
2	101	Priya	Female	1999-10-12 00:00:00	8.3199996948242188	IT
3	104	Neha Sharma	Female	1998-09-25 00:00:00	3.5999999046325684	IT
4	105	Sandeep Gupta	Male	1997-07-12 00:00:00	3.9000000953674316	Computer Science
5	106	Pooja Verma	Female	1999-03-18 00:00:00	3.7000000476837158	Electrical
6	102	Abhijit Sharma	Male	1999-11-10 00:00:00	8.6599998474121094	Electrical
7	103	Amit Tripathi	Male	2001-06-24 00:00:00	8.1099996566772461	IT

[Log In - Cloudera Man... [Hue - Editor - Mozilla ... [Hue - Editor - Mozilla ... Hue - Editor - Mozilla F... cloudera@quickstart:~

cloudera-quickstart-vm-5.13.0-0-vmware - VMware Workstation 17 Player (Non-commercial use only)

Player

Applications Places System

Hue - Editor - Mozilla Firefox

quickstart.cloudera:8888/hue/editor?editor=65

Cloudera Hue Hadoop HBase Impala Spark Solr Oozie Cloudera Manager Getting Started

Query

Search data and saved documents...

Jobs cloudera

Impala Add a name... Add a description...

mydb Tables students

(1) T +

SELECT \* FROM students WHERE branch='IT';

0s mydb text ?

Assistant Functions

Tables

Search...

mydb.students

Query History Saved Queries Results (3)

	roll	name	gender	dob	gpa	branch
1	104	Neha Sharma	Female	1998-09-25 00:00:00	3.5999999046325684	IT
2	103	Amit Tripathi	Male	2001-06-24 00:00:00	8.1099996566772461	IT
3	101	Priya	Female	1999-10-12 00:00:00	8.3199996948242188	IT

[Log In - Cloudera Man... [Hue - Editor - Mozilla ... [Hue - Editor - Mozilla ... Hue - Editor - Mozilla F... cloudera@quickstart:~