

BDA Lab 09

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AIM: SQL Crud Operations (Hive)/ Distributed Databases (HBase)

Installation Steps:

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We suggest the following mirror site for your download:
<http://mirrors.estointernet.in/apache/hive/>

Other mirror sites are suggested below.

It is essential that you verify the integrity of the downloaded file using the PGP signature (`.asc` file) or a hash (`.md5` or `.sha*` file).

Please only use the backup mirrors to download KEYS, PGP signatures and hashes (SHA* etc) -- or if no other mirrors are working.

Index of /hive

Name	Last modified	Size	Description
 Parent Directory		-	
 hive-1.2.2/	2022-06-17 12:34	-	
 hive-2.3.9/	2022-06-17 12:34	-	
 hive-3.1.2/	2022-06-17 12:34	-	
 hive-3.1.3/	2022-06-17 12:34	-	
 hive-4.0.0-alpha-1/	2022-06-17 12:34	-	
 hive-standalone-metastore-3.0.0/	2022-06-17 12:34	-	
 hive-storage-2.7.3/	2022-06-17 12:34	-	
 hive-storage-2.8.1/	2022-06-17 12:34	-	
 stable-2/	2022-06-17 12:34	-	
 KEYS	2022-03-23 18:19	99K	

Index of /hive/hive-3.1.3

Name	Last modified	Size	Description
 Parent Directory		-	
 apache-hive-3.1.3-bin.tar.gz	2022-04-08 17:42	312M	
 apache-hive-3.1.3-bin.tar.gz.asc	2022-04-08 17:42	488	
 apache-hive-3.1.3-bin.tar.gz.sha256	2022-04-08 17:42	95	
 apache-hive-3.1.3-src.tar.gz	2022-04-08 17:42	25M	
 apache-hive-3.1.3-src.tar.gz.asc	2022-04-08 17:42	488	
 apache-hive-3.1.3-src.tar.gz.sha256	2022-04-08 17:42	95	

Use: start-dfs.sh; start-yarn.sh; start-history-server.sh

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$ start-dfs.sh
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting namenodes on [localhost]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting datanodes
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
Starting secondary namenodes [localhost]
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using value of HADOOP_PREFIX.
2022-07-25 17:08:56,211 WARN util.NativeCodeLoader: Unable to load native-hadoop library for
applicable
```

Now use command: jps to verify if above commands were successful or not.

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$ jps
26130 NameNode
21349 ResourceManager
21686 NodeManager
26312 DataNode
27114 JobHistoryServer
26652 SecondaryNameNode
28684 Jps
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/opt/hadoop/etc/hadoop$
```

Download and extract hive to /opt/hive.

adding hive path in bashrc

HIVE_HOME=<dirWhereYouInstalledHive> into bash profile ~/.bashrc file

```
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/$ export HIVE_HOME="/home/hadoop/apache-hive-3.1.3-bin"
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/$ export PATH=$HIVE_HOME/bin:$PATH
hadoop@celab2-ThinkCentre-neo-50s-Gen-3:/$ echo $HIVE_HOME
/home/hadoop/apache-hive-3.1.3-bin
```

Make The following directories in hadoop.

```
hadoop fs -mkdir -p /tmp
```

```
hadoop fs -mkdir -p /user/hive/warehouse
```

```
hadoop fs -chmod g+w /tmp
```

```
hadoop fs -chmod g+w /user/hive/warehouse
```

To use the Hive CLI from the shell use command:

```
$HIVE_HOME/bin/hive
```

HIVE Online Platform: <https://demo.gethue.com/hue/editor/?type=6>

Creating the table

The screenshot shows the Hue Hive interface. On the left, there's a sidebar with a 'Tables' section containing a filter box and a list of tables, including 'u_data'. The main area displays the Hive CLI editor with the following SQL command:

```
1 CREATE TABLE u_data (
2   userid INT,
3   movieid INT,
4   rating INT,
5   unixtime STRING)
6 ROW FORMAT DELIMITED
7 FIELDS TERMINATED BY '\t'
8 STORED AS TEXTFILE;
9
```

Inserting into the table

The screenshot shows the Hue Hive interface with the SQL command editor. The command is:

```
1 INSERT INTO TABLE u_data values (196,242,3,881250949),
2 (186,302,3,891717742),
3 (22,377,1, 878887116),
4 (244, 51 ,2, 880606923),
5 (166, 346 ,1, 886397596),
6 (298, 474 ,4, 884182806),
7 (115, 265 ,2, 881171488),
8 (253, 465 ,5, 891628467),
9 (305, 451 ,3, 886324817);
```

Showing all data inserted.

defau

1 SELECT * FROM u_data;

▶ Execute

5000

⋮

	Query History	Saved Queries	Results	Chart	Execution Analysis
	u_data.userid	u_data.movieid	u_data.rating	u_data.unixtime	
1	196	242	3	881250949	
2	186	302	3	891717742	
3	22	377	1	878887116	
4	244	51	2	880606923	
5	166	346	1	886397596	
6	298	474	4	884182806	
7	115	265	2	881171488	

Finding total number of records in u_data.

Hive

⌂ Add a name... Add a des

1 SELECT count(*) FROM u_data;| A

▶ Execute

5000

	Query History	Saved Queries	Results	Chart
	_c0			
1	18			

Drop Table



Hive



Add a name.

```
1 drop table u_data;
```