EXP: 5 Create tables in Hive and write queries to access the data in the table

AIM: To create tables in Hive and write queries to access the data in the table

PROCEDURE:

Hive Download and installation:

1. Hive Installation setup: - Download and install Apache Derby version 10.14.2.0: https://db.apache.org/derby/derby downloads.html

For Java 8 and Higher (releases which support lambda expressions)

- 10.14.2.0 (May 3, 2018 / SVN 1828579)
- 10.13.1.1 (October 25, 2016 / SVN 1766613)

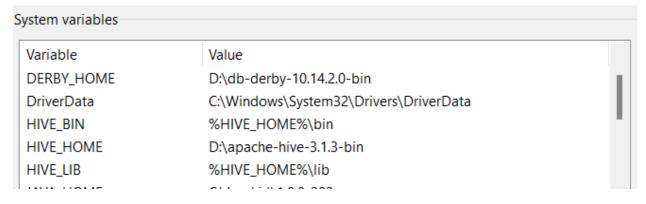
#For+Java+8+and+Higher -Download and install Apache Hive version 3.1.3: https://downloads.apache.org/hive/hive-3.1.3/

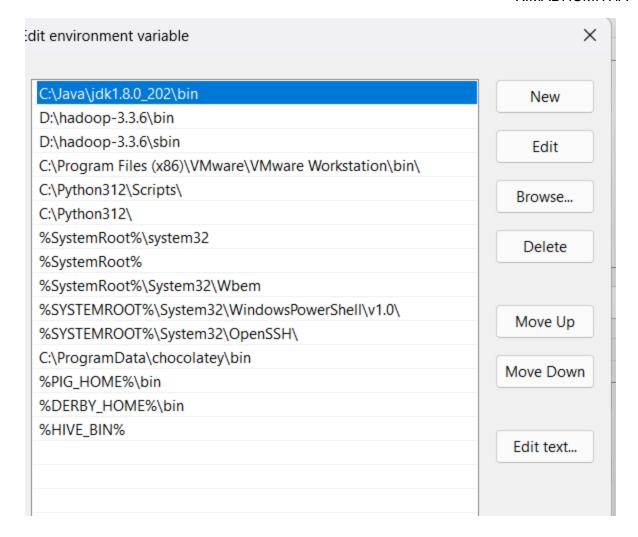


Index of /hive/hive-3.1.3

Name	Last modified	Size	Description
Parent Directory apache-hive-3.1.3-bin.tar.gz	2022-04-08 17:42		

2. Add environment variables:





- 3. Copy Derby libraries Go to the Derby libraries directory (db-derby-10.14.2.0\lib) and copy all *.jar files.

 Then, paste them within the Hive libraries directory.
- 4. Configuring hive-site.xml and Hive's Bin folder: Refer following link to download the file. Also download the guava file. Put hive-site.xml file to hive's conf location and replace hive's current guava file with this one in lib location.

Also download the bin folder from link and replace the existing hive's bin folder. https://ldrv.ms/f/s!ArSg3Xpur4Grmw0SDqW0g44T7HYU?e=wDsoBn

5. Starting Hadoop Services Open PowerShell as administrator and go to Hadoop sbin directory and start hadoop services using the following commands:

start-dfs.cmd start-yarn.cmd

```
Administrator: Command Prompt - hive

Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>jps
7968 ResourceManager
9248 Jps
14308 DataNode
7700 Main
9096 NameNode
15388 NodeManager
```

6. Derby Network Server: Open another PowerShell window and run the following command to open Derby:

StartNetworkServer -h 0.0.0.0

```
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>StartNetworkServer -h 0.0.0.0

Tue Sep 17 19:44:25 IST 2024 : Security manager installed using the Basic server security policy.

Tue Sep 17 19:44:30 IST 2024 : Apache Derby Network Server - 10.14.2.0 - (1828579) started and ready to accept connections on port 1527
```

Go to first PowerShell window and check whether NetworkServerControl is running.

```
Administrator: Command Prompt - hive

C:\Windows\System32>jps
7968 ResourceManager
14308 DataNode
7700 Main
9096 NameNode
9544 NetworkServerControl
15388 NodeManager
21356 Jps
```

7. Starting Apache Hive: Go to Apache Hive's bin location with cd command and run the following command:

hive --service schematool -dbType derby -initSchema

8. Open Hive shell by typing: hive

Create a Database: Start by creating a database.

Open the Hive CLI and follow the steps below:

1. Use the CREATE DATABASE statement to create a new database:

CREATE DATABASE db1;

```
New Create database db]:

1924-09-17 19:46:12,985 INFO QLOTVEY: Conf. HiveConf: Using the default value passed in for log id: Gff3761-094-4ec4-820-14068398036

1924-09-17 19:46:12,985 INFO QLOTVEY: Concurrency mode is disabled, not creating a lock manager

1924-09-17 19:46:13,293 INFO QLOTVEY: Search Analysis Completed (vertial = 1-disabled).

1924-09-17 19:46:13,293 INFO QLOTVEY: Search Analysis Completed (vertial = 1-disabled).

1924-09-17 19:46:13,293 INFO QLOTVEY: Search Analysis Completed (vertial = 1-disabled).

1924-09-17 19:46:13,293 INFO QLOTVEY: Search Analysis Completed (vertial = 1-disabled).

1924-09-17 19:46:13,293 INFO QLOTVEY: Search Canadian Completed (vertial = 1-disabled).

1924-09-17 19:46:13,293 INFO QLOTVEY: Search Concurrency mode is disabled, not creating a lock manager

1924-09-17 19:46:13,246 INFO QLOTVEY: Search Canadian Concurrency mode is disabled, not creating a lock manager

1924-09-17 19:46:13,246 INFO QLOTVEY: Search Canadian Ca
```

2. Verify the database is present:

SHOW DATABASES;

3. Switch to the new database: Switch to the newly created database: USE db1;

```
Administrator Command Prompt - hive
hive> use db1;
2024-09-17 19:46:34,120 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36
2024-09-17 19:46:34,120 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36
2024-09-17 19:46:34,120 INFO ql.Driver: Compiling command(queryId=ADMIN_20240917194634_3967201a-3af2-49e1-84aa-9dc9af00c63b): use db1
2024-09-17 19:46:34,131 INFO ql.Driver: Concurrency mode is disabled, not creating a lock manager
2024-09-17 19:46:34,131 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cd=gt_database: @hive#db1
2024-09-17 19:46:34,131 INFO dhiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cd=gt_database: @hive#db1
2024-09-17 19:46:34,131 INFO ql.Driver: Returning Hive schema: Schema(fieldSchemas:null, properties:null)
2024-09-17 19:46:34,131 INFO ql.Driver: Returning Hive schema: Schema(fieldSchemas:null, properties:null)
2024-09-17 19:46:34,135 INFO ql.Driver: Completed compiling command(queryId=ADMIN_20240917194634_3967201a-3af2-49e1-84aa-9dc9af00c63b); Time taken: 0.014 second 2024-09-17 19:46:34,135 INFO ql.Driver: Concurrency mode is disabled, not creating a lock manager
2024-09-17 19:46:34,131 INFO ql.Driver: Starting task [Stage-0:DDL] in serial mode
2024-09-17 19:46:34,131 INFO ql.Driver: Starting task [Stage-0:DDL] in serial mode
2024-09-17 19:46:34,140 INFO metastore.HiveMetaStore: 0: get_database: @hive#db1
2024-09-17 19:46:34,141 INFO metastore.HiveMetaStore: 0: get_database: @hive#db1
2024-09-17 19:46:34,141 INFO metastore.hiveMetaStore: 0: get_database: @hive#db1
2024-09-17 19:46:34,141 INFO metastore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_database: @hive#db1
2024-09-17 19:46:34,141 INFO metastore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_database: @hive#db1
2024-09-17 19:46:34,141 INFO gl.Driver: Concurrency mode is disabled, not creating a lock manager
Inime taken: 0.023 seconds
2024-09-17 19:46:34,141 INFO gl.Driver: Concurrency mode is disabled, not creating a lo
```

Create a Table in Hive:

Create a simple table in your database:

CREATE TABLE stud (id INT, name STRING);

```
Administrator Command Prompt Note

Nivo Create table studid int, name string);
2024-09-17 19:46-54,680 NPC conflictive Conflic
```

Insert values into the table: You can insert sample data into the table: insert into stud values(1,'Madhu'),(2,'Mitha'),(3,'Kannan'),(4,'Deepa');

```
The Amministrator Communic Promise Theory (2, "Nathur"), (2, "Nitha"), (3, "Kannan"), (4, "Deepa");

3/24-99-17 19:47:55,491 INFO conf. Hivedom': Using the default value passed in fee log id: clff1)(1.4084.4e-d.432c-100633908636)

3/24-99-17 19:47:55,492 INFO cln. Hivedom': Using the default value passed in fee log id: clff1)(1.4084.4e-d.432c-100633908636)

3/24-99-17 19:47:55,492 INFO cln. Hivedom': Using the default value passed in fee log id: clff1)(1.4084.4e-d.232c-100633908636)

3/24-99-17 19:47:55,492 INFO cln. Hivedom': Using the default value passed in fee log id: clff1)(1.4084.9e)

3/24-99-17 19:47:55,492 INFO cln. Hivedom': Using the default value passed in fee log id: clff1)(1.4084.9e)

3/24-99-17 19:47:55,492 INFO cln. Hivedom': Using the default value passed in fee log id: clff1)(1.4084.9e)

3/24-99-17 19:47:55,492 INFO cln. Hivedom': Using the default value passed in fee log id: clff1)(1.4084.9e)

3/24-99-17 19:47:55,492 INFO clff. Hivedom': Using the default value passed in fee log id: clff1)(1.4084.9e)

3/24-99-17 19:47:55,594 INFO passe (allietPlaners: Gompleted phase in Subpuries

3/24-99-17 19:47:55,595 INFO passe (allietPlaners: Get metadata for source tables

3/24-99-17 19:47:55,595 INFO passe (allietPlaners: Get metadata for subpuries in the default value passed in the defaul
```

Query your data: Use SQL-like queries to retrieve data from your table: SELECT * from stud;

```
Administrator Command Prompt - Inve

ive> select * from stud;

2024-09-17 19:49:45,653 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36

2024-09-17 19:49:45,653 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36 main

2024-09-17 19:49:45,654 INFO gl.Driver: Concurrency mode is disabled, not creating a lock manager

2024-09-17 19:49:45,664 INFO gl.Driver: Concurrency mode is disabled, not creating a lock manager

2024-09-17 19:49:45,664 INFO parse.CalcitePlanner: Completed phase 1 of Semantic Analysis

2024-09-17 19:49:45,665 INFO parse.CalcitePlanner: Completed phase 1 of Semantic Analysis

2024-09-17 19:49:45,665 INFO parse.CalcitePlanner: ect metadata for source tables

2024-09-17 19:49:45,650 INFO metastore.HiveMetaStore: 0: get_table: tbl-hive.dbl.stud

2024-09-17 19:49:45,650 INFO parse.CalcitePlanner: ect metadata for subqueries

2024-09-17 19:49:45,650 INFO parse.CalcitePlanner: ect metadata for subqueries

2024-09-17 19:49:45,650 INFO parse.CalcitePlanner: ect metadata for subqueries

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: ect metadata for subqueries

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis

2024-09-17 19:49:45,670 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis

2024-09-17 19:49:45,670 INFO metaStore.HiveMetaStore
```

TO DESCRIBE THE TABLE:

DESC stud;

```
Existent Administrator Command Prompt- hive
hive's desc stud;
2024-09-17 19:49:54,950 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36
2024-09-17 19:49:54,950 INFO session.SessionState: Updating thread name to c3ff3761-e094-4ec4-829c-1d0683980b36 main
2024-09-17 19:49:54,950 INFO al.Driver: Compiling command(queryId-ADMIN_20240917109546_167522-f488-4430-ae01-f66483d8ee54): desc stud
2024-09-17 19:49:54,962 INFO q1.Driver: Concurrency mode is disabled, not creating a lock manager
2024-09-17 19:49:54,964 INFO HiveMeta5tore audit: ugi=ADMIN ip-unknown-ip-addr cmd=get_table: tbl=hive.dbl.stud
2024-09-17 19:49:54,964 INFO HiveMeta5tore. 20det table: tbl=hive.dbl.stud
2024-09-17 19:49:54,976 INFO q1.Driver: Semantic Analysis Completed (retrial = false)
2024-09-17 19:49:54,977 INFO q1.Driver: Semantic Analysis Completed (retrial = false)
2024-09-17 19:49:54,977 INFO q2.Driver: Returning Hive schema: Schema(fieldSchemas(FieldSchemas(name:col name, type:string, comment:from deserializer), FieldSchema(name:comment, type:string, comment:from deserializer), FieldSchema(name:comment, type:string, comment:from deserializer), FieldSchema(name:col name, type:string, comment
```

```
2024-09-17 19:49:55,008 INFO exec.ListSinkOperator: RECORDS_OUT_INTERMEDIATE:0, RECORDS_OUT_OPERATOR_LIST_SINK_0:2, id int name string

Time taken: 0.043 seconds, Fetched: 2 row(s)
2024-09-17 19:49:55,011 INFO CliDriver: Time taken: 0.043 seconds, Fetched: 2 row(s)
2024-09-17 19:49:55,011 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d062
2024-09-17 19:49:55,012 INFO session.SessionState: Resetting thread name to main
```

To alter table:

ALTER TABLE stud ADD COLUMNS(age int);

```
Expected Administrator: Command Prompt - hive

hive> alter table stud add columns(age int);

2024-09-17 19:50:27,083 IMFO conf. HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36

2024-09-17 19:50:27,083 IMFO session. SessionState: Updating thread name to c3ff3761-e094-4ec4-829c-1d0683980b36 main

2024-09-17 19:50:27,084 IMFO ql.Driver: Compiling command(queryId=ADMIN_20240917195027_39a69b3a-1878-495c-89fa-567c73e43675): alter table stud add columns(age

2024-09-17 19:50:27,096 IMFO metastore. HiveMetaStore: 0: get_table : tbl=hive.dbl.stud

2024-09-17 19:50:27,097 IMFO dl.Driver: Semantic Analysis Completed (retrial = false)

2024-09-17 19:50:27,102 IMFO ql.Driver: Semantic Analysis Completed (retrial = false)

2024-09-17 19:50:27,102 IMFO ql.Driver: Returning Hive schema: Schema(fieldSchemas:null, properties:null)

2024-09-17 19:50:27,103 IMFO reexec.ReExecDriver: Execution #1 of query

2024-09-17 19:50:27,103 IMFO reexec.ReExecDriver: Execution #1 of query

2024-09-17 19:50:27,104 IMFO ql.Driver: Concurrency mode is disabled, not creating a lock manager

2024-09-17 19:50:27,104 IMFO ql.Driver: Completed compiling command(queryId=ADMIN_20240917195027_39a69b3a-1878-495c-89fa-567c73e43675); Time taken: 0.019 secon

2024-09-17 19:50:27,104 IMFO ql.Driver: Execution #1 of query

2024-09-17 19:50:27,104 IMFO ql.Driver: Execution #1 of query

2024-09-17 19:50:27,105 IMFO ql.Driver: Execution #1 of query

2024-09-17 19
```

To create views:

```
CREATE VIEW V1 AS select id,name from stud; Select * from v1;
```

```
2024-09-17 19:50:41.300 INFO session.SessionState: Resetting thread name to main
  hive> create view v1 as select id,name from stud where name like '%m';
2024-09-17 19:51:30,318 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36
2024-09-17 19:51:30,318 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-Aec4-829c-1d0683980b36 2024-09-17 19:51:30,318 INFO session.SessionState: Updating thread name to c3ff3761-e094-Aec4-829c-1d0683980b36 main 2024-09-17 19:51:30,319 INFO q1.Driver: Compiling command(queryId=ADMIN_202409171951a)_f6db5esf-Aca1-496c-9c6b-1c16c85214f2): create view v1 as select id,name 2024-09-17 19:51:30,330 INFO q1.Driver: Concurrency mode is disabled, not creating a lock manager 2024-09-17 19:51:30,330 INFO parse.CalcitePlanner: Starting Semantic Analysis 2024-09-17 19:51:30,331 INFO parse.CalcitePlanner: Creating view db1.v1 position=12 2024-09-17 19:51:30,332 INFO metastore.HiveMetaStore: 0: get_database: @hive#db1 2024-09-17 19:51:30,332 INFO metastore.duidit: ugi=ADMIN ip=unknown-ip-addr cmdget_database: @hive#db1 2024-09-17 19:51:30,334 INFO parse.CalcitePlanner: Completed phase 1 of Semantic Analysis 2024-09-17 19:51:30,334 INFO parse.CalcitePlanner: Get metadata for source tables 2024-09-17 19:51:30,334 INFO metastore.HiveMetaStore: 0: get_table : tbl=hive.db1.stud 2024-09-17 19:51:30,335 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_table : tbl=hive.db1.stud 2024-09-17 19:51:30,335 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_table : tbl=hive.db1.stud
 2024-09-17 19:51:30,335 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_table : tbl=hive.dbl.stud
2024-09-17 19:51:30,341 INFO parse.CalcitePlanner: Get metadata for subqueries
2024-09-17 19:51:30,341 INFO parse.CalcitePlanner: Get metadata for destination tables
2024-09-17 19:51:30,363 INFO ql.Context: New scratch dir is hdfs://localhost:9000/tmp/hive/ADMIN/c3ff3761-e094-4ec4-829c-1d0683980b36/hive_2024-09-17_19-51-30_
  2024-09-17 19:51:30,363 INFO parse.CalcitePlanner: Completed getting MetaData in Semantic Analysis 2024-09-17 19:51:30,365 INFO metastore.HiveMetaStore: 0: get_not_null_constraints : tbl=hive.db1.stud
  2024-09-17 19:51:30,366 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=gr
2024-09-17 19:51:30,367 INFO metastore.HiveMetaStore: 0: get_primary_keys : tbl=hive.db1.stud
                                                                                                                                                                                                                                                                                                                                                                                                                                 {\sf cmd=get\_not\_null\_constraints} \ : \ {\sf tbl=hive.db1.stud}
                                                                                                                                                                                                                                                                                                                                                                                                                                 cmd=get_primary_keys : tbl=hive.db1.stud
  2024-09-17 19:51:30,367 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=gr
2024-09-17 19:51:30,368 INFO metastore.HiveMetaStore: 0: get_primary_keys : tbl=hive.db1.stud
  2024-09-17 19:51:30,369 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_primary_keys : tbl=hive.db1.stud 2024-09-17 19:51:30,373 INFO metastore.HiveMetaStore: 0: get_unique_constraints : tbl=hive.db1.stud
  2024-09-17 19:51:30,373 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_unique_constraints : tbl=hive.db1.stud
2024-09-17 19:51:30,374 INFO metastore.HiveMetaStore: 0: get_foreign_keys : parentdb=null parenttbl=null foreigndb=db1 foreigntbl=stud
                                                                                                                                                                                                                                                                                                                                                                                                                                 cmd=get_unique_constraints : tbl=hive.db1.stud
  2024-09-17 19:51:30,375 INFO HiveMetaStore.audit: ugi=ADMN ip=unknown-ip-addr
2024-09-17 19:51:30,416 INFO metastore.HiveMetaStore: 0: get_databases: @hive#
                                                                                                                                                                                                                                                                                                                                                                                                                                 \verb|cmd=get_foreign_keys|: parentdb=null parenttbl=null foreigndb=db1 fo
  2024-09-17 19:51:30,417 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_databases: 2024-09-17 19:51:30,418 INFO metastore.HiveMetaStore: 0: get_materialized_views_for_rewriting: db=@hive#db1
                                                                                                                                                                                                                                                                                                                                                                                                                                  cmd=get_databases: @hive#
  2024-09-17 19:51:30,418 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_materialized_views_for_rewriting: db=@hive#db1 2024-09-17 19:51:30,420 INFO metastore.HiveMetaStore: 0: get_materialized_views_for_rewriting: db=@hive#default
                                                                                                                                                                                                                                                                                                                                                                                                                                 cmd=get materialized views for rewriting: db=@hive#default
   2024-09-17 19:51:30.421 INFO HiveMetaStore.audit: ugi=ADMIN
                                                                                                                                                                                                                                                                                                             ip=unknown-ip-addr
         Administrator: Command Prompt - hive
  hive> select * from v1;
2024-09-17 19:52:34,300 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36
 2024-09-17 19:52:34,300 INFO gension.SessionState: Updating thread name to c3ff3761-e094-4ec4-8292-1d063980b36 main 2024-09-17 19:52:34,300 INFO gension.SessionState: Updating thread name to c3ff3761-e094-4ec4-8292-1d063980b36 main 2024-09-17 19:52:34,310 INFO gl.Driver: Compiling command(queryId=ADMIN_20240917195234,405d24c1-8d32-456b-bdb4-081ede02a6ec): select * from v1 2024-09-17 19:52:34,310 INFO gl.Driver: Concurrency mode is disabled, not creating a lock manager 2024-09-17 19:52:34,311 INFO parse.CalcitePlanner: Starting Semantic Analysis
   2024-09-17 19:52:34,311 INFO parse.CalcitePlanner: Completed phase 1 of Semantic Analysis
  2024-09-17 19:52:34,311 INFO parse.CalcitePlanner: Get metadata for source tables
2024-09-17 19:52:34,312 INFO metastore.HiveMetaStore: 0: get_table : tbl=hive.dbl.v1
2024-09-17 19:52:34,312 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr
                                                                                                                                                                                                                                                                                                                                                                                                                                      cmd=get table : tbl=hive.db1.v1
  2024-09-17 19:52:34,322 INFO parse.CalcitePlanner: Get metadata for subqueries 2024-09-17 19:52:34,322 INFO parse.CalcitePlanner: Get metadata for source tables
 2024-09-17 19:52:34,323 INFO metastore. HiveMetaStore: 0: get_table : tbl=hive.db1.stud
2024-09-17 19:52:34,323 INFO metastore. HiveMetaStore: 0: get_table : tbl=hive.db1.stud
2024-09-17 19:52:34,332 INFO metastore. HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_table : tbl=hive.db1.stud
2024-09-17 19:52:34,332 INFO parse.CalcitePlanner: Get metadata for subqueries
2024-09-17 19:52:34,333 INFO parse.CalcitePlanner: Get metadata for destination tables
2024-09-17 19:52:34,333 INFO parse.CalcitePlanner: Get metadata for destination tables
2024-09-17 19:52:34,333 INFO ql.Context: New scratch dir is hdfs://localhost:9000/tmp/hive/ADMIN/c3ff3761-e094-4ec4-829c-1d0683980b36/hive_2024-09-17_19-52-34
 2024-09-17 19:52:34,345 INFO parse.CalcitePlanner: Completed getting Metabata in Semantic Analysis 2024-09-17 19:52:34,347 INFO metastore.HiveMetaStore: 0: get_not_null_constraints: tbl=hive.dbl.stud 2024-09-17 19:52:34,347 INFO metastore.HiveMetaStore: 0: get_not_null_constraints: tbl=hive.dbl.stud 2024-09-17 19:52:34,347 INFO MiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_not_null_constraints: 19:52:34,348 INFO metastore.HiveMetaStore: 0: get_primary_keys: tbl=hive.dbl.stud 2024-09-17 19:52:34,340 INFO MiveMetaStore.pudit.ugi-ADMIN ip=unknown-ip-in-addressed.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.hive.dbl.students.h
                                                                                                                                                                                                                                                                                                                                                                                                                                      cmd=get_not_null_constraints : tbl=hive.db1.stud
  2024-09-17 19:52:34,349 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=ge 2024-09-17 19:52:34,353 INFO metastore.HiveMetaStore: 0: get_primary_keys: tbl=hive.db1.stud 2024-09-17 19:52:34,353 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=ge cmd=ge 2024-09-17 19:52:34,353 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=ge 2024-09-17 19:52:34,353 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=ge 2024-09-17 Information in the control of t
                                                                                                                                                                                                                                                                                                                                                                                                                                      cmd=get_primary_keys : tbl=hive.db1.stud
  2024-09-17 19:52:34,353 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_prim 2024-09-17 19:52:34,354 INFO metastore.HiveMetaStore: 0: get_unique_constraints : tbl=hive.dbl.stud 2024-09-17 19:52:34 354 INFO MivaMetaStore oudit: usi ADMIN and 
                                                                                                                                                                                                                                                                                                                                                                                                                                     cmd=get_primary_keys : tbl=hive.db1.stud
  2024-09-17 19:52:34,354 INFO Microscore.nivemetastore.org.nique_constraints : tbl=hive.db1.stud 2024-09-17 19:52:34,355 INFO metastore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=get_unique_constraints : tbl=hive.db1.stud 2024-09-17 19:52:34,355 INFO metastore.HiveMetaStore: 0: get_foreign_keys : parentdb=null parenttbl=null foreigndb=db1 foreigntbl=stud
```

List Hive Tables and Data:

To show all tables in a selected database, use the following statement: SHOW TABLES;

210701141 K.MADHUMITHA

```
Administrator: Command Prompt - hive
2024-09-17 20:15:52,744 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36
2024-09-17 20:15:52,744 INFO session.SessionState: Updating thread name to c3ff3761-e094-4ec4-829c-1d0683980b36 main
2024-09-17 20:15:52,745 INFO ql.Driver: Compiling command(queryId=ADMIN_20240917201552_671de9e3-1734-4160-a345-d26c53643535): show tables 2024-09-17 20:15:52,756 INFO ql.Driver: Concurrency mode is disabled, not creating a lock manager 2024-09-17 20:15:52,756 INFO metastore. HiveMetaStore: 0: get_database: @hive#db1
2024-09-17 20:15:52,757 INFO HiveMetaStore.audit: ugi=ADMIN
                                                                          ip=unknown-ip-addr
                                                                                                      cmd=get database: @hive#db1
2024-09-17 20:15:52,760 INFO ql.Driver: Semantic Analysis Completed (retrial = false)
2024-09-17 20:15:52,761 INFO ql.Driver: Returning Hive schema: Schema(fieldSchemas:[FieldSchema(name:tab_name, type:string, comment:from de
2024-09-17 20:15:52,761 INFO exec.ListSinkOperator: Initializing operator LIST_SINK[0]
2024-09-17 20:15:52,762 INFO ql.Driver: Completed compiling command(queryId=ADMIN_20240917201552_671de9e3-1734-4160-a345-d26c53643535); Tim
2024-09-17 20:15:52,762 INFO reexec.ReExecDriver: Execution #1 of query
2024-09-17 20:15:52,762 INFO ql.Driver: Concurrency mode is disabled, not creating a lock manager
2024-09-17 20:15:52,762 INFO ql.Driver: Executing command(queryId=ADMIN_20240917201552_671de9e3-1734-4160-a345-d26c53643535): show tables
2024-09-17 20:15:52,763 INFO ql.Driver: Starting task [Stage-0:DDL] in serial mode
2024-09-17 20:15:52,765 INFO metastore.HiveMetaStore: 0: get_database: @hive#db1
2024-09-17 20:15:52,766 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-add
                                                                         ip=unknown-ip-addr
                                                                                                      cmd=get database: @hive#db1
2024-09-17 20:15:52,768 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr ip=unknown-ip-addr ip=unknown-ip-addr
                                                                                                      cmd=get_tables: db=@hive#db1 pat=.*
2024-09-17 20:15:52,771 INFO ql.Driver: Completed executing command(queryId=ADMIN_20240917201552_671de9e3-1734-4160-a345-d26c53643535); Tim
2024-09-17 20:15:52,772 INFO ql.Driver: OK
2024-09-17 20:15:52,772 INFO ql.Driver: Concurrency mode is disabled, not creating a lock manager
2024-09-17 20:15:52,774 INFO mapred.FileInputFormat: Total input files to process :
2024-09-17 20:15:52,788 INFO exec.ListSinkOperator: RECORDS OUT INTERMEDIATE:0, RECORDS OUT OPERATOR LIST SINK 0:2,
Fime taken: 0.028 seconds, Fetched: 2 row(s)
2024-09-17 20:15:52,790 INFO Clibriver: Time taken: 0.028 seconds, Fetched: 2 row(s) 2024-09-17 20:15:52,791 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36
2024-09-17 20:15:52.791 INFO session. Session State: Resetting thread name to main
```

Quit Hive: To exit the Hive CLI, simply type: Quit;

```
CO24-09-17 20:16:54,639 INFO session.SessionState: Resetting thread name to main hive quit;

2024-09-17 20:17:01,582 INFO conf.HiveConf: Using the default value passed in for log id: c3ff3761-e094-4ec4-829c-1d0683980b36 2024-09-17 20:17:01,583 INFO session.SessionState: Updating thread name to c3ff3761-e094-4ec4-829c-1d0683980b36 main 2024-09-17 20:17:01,594 INFO session.SessionState: Deleted directory: C/mp/hive/ADMIN/c3ff3761-e094-4ec4-829c-1d0683980b36 on fs with scheme hdfs 2024-09-17 20:17:01,594 INFO session.SessionState: Deleted directory: C:/Users/ADMIN/AppData/Local/Temp/ADMIN/c3ff3761-e094-4ec4-829c-1d0683980b36 on fs v 2024-09-17 20:17:01,504 INFO session.SessionState: Deleted directory: C:/Users/ADMIN/AppData/Local/Temp/ADMIN/c3ff3761-e094-4ec4-829c-1d0683980b36 on fs v 2024-09-17 20:17:01,603 INFO metastore.HiveMetaStore: 0: Cleaning up thread local RawStore... 2024-09-17 20:17:01,603 INFO metastore.HiveMetaStore: 0: Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO metastore.HiveMetaStore: 0: Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=Done cleaning up thread local RawStore 2024-09-17 20:17:01,603 INFO HiveMetaStore.audit: ugi=ADMIN ip=unknown-ip-addr cmd=Done cleaning up thread local
```

RESULT:

Thus, to create tables in Hive and write queries to access the data in the table was completed successfully.