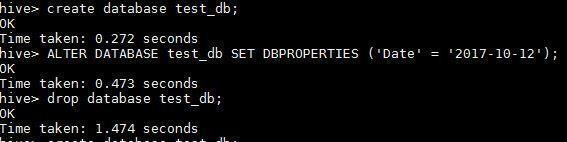
**BDA Assignment 6**

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**Problem Statement:** Use Hive to create, alter, and drop databases, tables, views, functions, and indexes and create a web application using Hive and Hadoop to demonstrate any real-time application.

**Theory:** Hadoop Hive is a database framework on the top of [Hadoop](https://dwgeek.com/hadoop-hdfs-architecture-introduction-design.html/) [distributed](https://dwgeek.com/hadoop-hdfs-architecture-introduction-design.html/) [file](https://dwgeek.com/hadoop-hdfs-architecture-introduction-design.html/) [systems](https://dwgeek.com/hadoop-hdfs-architecture-introduction-design.html/) [(HDFS)](https://dwgeek.com/hadoop-hdfs-architecture-introduction-design.html/) [d](https://dwgeek.com/hadoop-hdfs-architecture-introduction-design.html/)eveloped by Facebook to analyse structured data. It supports almost all commands that regular databases support. Hadoop hive create, drop, alter, use database commands are database DDL commands. This article explains these commands with examples.



Hive contains a default database named default. Read:

* [Hive](https://dwgeek.com/hive-create-external-tables-examples.html/) [Create](https://dwgeek.com/hive-create-external-tables-examples.html/) [External](https://dwgeek.com/hive-create-external-tables-examples.html/) [Tables](https://dwgeek.com/hive-create-external-tables-examples.html/) [and](https://dwgeek.com/hive-create-external-tables-examples.html/) [Examples](https://dwgeek.com/hive-create-external-tables-examples.html/)

# Hadoop Hive SHOW DATABASES commds

This command displays all the databases available in Hive. Below is the example of using show database command:

hive> show databases; OK

default

test\_db **Hadoop Hive Create**

# Database Command

Hadoop Hive create database is a statement used to create a databases. You can compare Hive database as a namespace in HBase. It is a collection of various tables.

The syntax for Hive create database statement is as follows:

CREATE (DATABASE|SCHEMA) [IF NOT EXISTS] database\_name

[COMMENT 'comment'] [LOCATION 'hdfs\_path']

[WITH DBPROPERTIES (property\_name=property\_value, ...)];

The uses of SCHEMA and DATABASE are interchangeable in Hive – they mean the same thing

Below is the example of create database in Hive:

hive> create database test\_db; OK

Time taken: 0.272 seconds

# Hadoop Hive USE Database Command

USE command sets the current database for all subsequent HiveQL query statements.

Below is the example of USE database command in Hive:

hive> use test\_db;

OK

Time taken: 0.225 seconds hive> use default;

OK

Time taken: 0.222 seconds

To revert to the default database, use the keyword name “default” instead of a database name.

# Hadoop Hive Alter Database Command

Hadoop Hive alter database is a statement used to change the properties of a

databases in Hive. You can add or remove the database comments, properties etc by using alter database statements.

The syntax for Hive alter database statement is as follows:

ALTER (DATABASE|SCHEMA) database\_name SET DBPROPERTIES

(property\_name=property\_value, ...);

ALTER (DATABASE|SCHEMA) database\_name SET OWNER [USER|ROLE]

user\_or\_role;

ALTER (DATABASE|SCHEMA) database\_name SET LOCATION hdfs\_path; Below is the example of alter database in Hive:

hive> ALTER DATABASE test\_db SET DBPROPERTIES ('Date' = '2017-10-12'); OK

Time taken: 0.473 seconds

# Hive Drop Database Command

Hadoop Hive drop database is a statement used to drop the databases in Hive. The syntax for Hive drop database statement is as follows:

DROP (DATABASE|SCHEMA) [IF EXISTS] database\_name [RESTRICT|CASCADE];

*The default behaviour is RESTRICT, where DROP DATABASE will fail if the database is not empty. To drop the tables in the database as well, use DROP DATABASE … with CASCADE option.*

Below is the example of drop database in Hive:

hive> drop database test\_db; OK

Time taken: 1.474 seconds

**Code & Output:**

