**HIVE Data Definition Language**

DDL statements are used to build and modify the tables and other objects in the database.

*Example :*

CREATE, DROP, TRUNCATE, ALTER, SHOW, DESCRIBE Statements

CREATE : create the new database in the Hive. The database creates in a default location of the Hive warehouse

**create database Raktim;**

**CREATE TABLE temperature\_data**

**(**

**dateOfYear STRING,**

**zipCode INT,**

**temperature INT**

**)**

**ROW FORMAT DELIMITED**

**FIELDS TERMINATED BY ',';**

SHOW : list out the databases in Hive warehouse

**show databases;**

USE: command to use the database

**use Raktim;**

copyFromLocal : Copy the input data to HDFS from local by using the copy From Local command.

DESCRIBE : **Describe** provides information about the schema of the table

**DESCRIBE FORMATTED raktim. temperature\_data;**

**Hive Data Manipulation Language**

There are multiple ways to modify data in Hive:

* [LOAD](https://cwiki.apache.org/confluence/display/hive/languagemanual+dml#LanguageManualDML-Loadingfilesintotables)
* INSERT
  + [into Hive tables from queries](https://cwiki.apache.org/confluence/display/hive/languagemanual+dml#LanguageManualDML-InsertingdataintoHiveTablesfromqueries)
  + [into directories from queries](https://cwiki.apache.org/confluence/display/hive/languagemanual+dml#LanguageManualDML-Writingdataintothefilesystemfromqueries)
  + [into Hive tables from SQL](https://cwiki.apache.org/confluence/display/hive/languagemanual+dml#LanguageManualDML-InsertingintotablesfromSQL)
* [UPDATE](https://cwiki.apache.org/confluence/display/hive/languagemanual+dml#LanguageManualDML-Update)
* [DELETE](https://cwiki.apache.org/confluence/display/hive/languagemanual+dml#LanguageManualDML-Delete)
* [MERGE](https://cwiki.apache.org/confluence/display/hive/languagemanual+dml#LanguageManualDML-Merge)

### Loading files into tables

Hive does not do any transformation while loading data into tables. Load operations are currently pure copy/move operations that move datafiles into locations corresponding to Hive tables.

**LOAD DATA LOCAL INPATH '/home/acadgild/hadoop/dataset\_Session 14.txt'**

**INTO TABLE custom.temperature\_data;**

**HIVE QL Manipulations:**

**‘Partitioned by**‘ is used to divided the table into the Partition and can be divided in to buckets by using the ‘**Clustered By**‘ command.

**use Raktim;**

**create table partitioned\_temperature\_table**

**(**

**full\_date STRUCT<year:INT, month:INT, day:INT>,**

**zip INT,**

**temperature INT**

**)**

**PARTITIONED BY (year INT);**

When we insert the data Hive throwing errors, the dynamic partition mode is strict and dynamic partition not enabled (by [Jeff](http://www.dresshead.com/dresshead-staff-profile-jeff-maurer/) at [dresshead website](http://www.dresshead.com/)). So we need to set the following parameters in Hive shell.

set hive.exec.dynamic.partition=true;

To enable dynamic partitions, by default, it’s false.