Create Table Statement

Create Table is a statement used to create a table in Hive. The syntax and example are as follows:

Syntax

CREATE [TEMPORARY] [EXTERNAL] TABLE [IF NOT EXISTS] [db\_name.] table\_name

[(col\_name data\_type [COMMENT col\_comment], ...)]

[COMMENT table\_comment]

[ROW FORMAT row\_format]

[STORED AS file\_format]

hive> CREATE TABLE IF NOT EXISTS employee ( eid int, name String,

salary String, destination String)

COMMENT ‘Employee details’

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ‘\t’

LINES TERMINATED BY ‘\n’

STORED AS TEXTFILE;

### Syntax

The syntax for load data is as follows:

LOAD DATA [LOCAL] INPATH 'filepath' [OVERWRITE] INTO TABLE tablename

[PARTITION (partcol1=val1, partcol2=val2 ...)]

* LOCAL is identifier to specify the local path. It is optional.
* OVERWRITE is optional to overwrite the data in the table.
* PARTITION is optional.

hive> LOAD DATA LOCAL INPATH '/home/user/sample.txt'

OVERWRITE INTO TABLE employee;

## Alter Table Statement

It is used to alter a table in Hive.

### Syntax

The statement takes any of the following syntaxes based on what attributes we wish to modify in a table.

ALTER TABLE name RENAME TO new\_name

ALTER TABLE name ADD COLUMNS (col\_spec[, col\_spec ...])

ALTER TABLE name DROP [COLUMN] column\_name

ALTER TABLE name CHANGE column\_name new\_name new\_type

ALTER TABLE name REPLACE COLUMNS (col\_spec[, col\_spec ...])

hive> ALTER TABLE employee CHANGE name ename String;

hive> ALTER TABLE employee CHANGE salary salary Double;

hive> ALTER TABLE employee ADD COLUMNS (

dept STRING COMMENT 'Department name');

hive> ALTER TABLE employee REPLACE COLUMNS (

eid INT empid Int,

ename STRING name String);

## Adding a Partition

We can add partitions to a table by altering the table. Let us assume we have a table called **employee** with fields such as Id, Name, Salary, Designation, Dept, and yoj.

### Syntax:

ALTER TABLE table\_name ADD [IF NOT EXISTS] PARTITION partition\_spec

[LOCATION 'location1'] partition\_spec [LOCATION 'location2'] ...;

partition\_spec:

: (p\_column = p\_col\_value, p\_column = p\_col\_value, ...)

hive> ALTER TABLE employee

> ADD PARTITION (year=’2012’)

> location '/2012/part2012';

## Renaming a Partition

The syntax of this command is as follows.

ALTER TABLE table\_name PARTITION partition\_spec RENAME TO PARTITION partition\_spec;

The following query is used to rename a partition:

hive> ALTER TABLE employee PARTITION (year=’1203’)

> RENAME TO PARTITION (Yoj=’1203’);

## Dropping a Partition

The following syntax is used to drop a partition:

ALTER TABLE table\_name DROP [IF EXISTS] PARTITION partition\_spec, PARTITION partition\_spec,...;

The following query is used to drop a partition:

hive> ALTER TABLE employee DROP [IF EXISTS]

> PARTITION (year=’1203’);