# complex datatypes

* Array
* Collection of objects with same datatypes is known as array.
* Int the array there is nl limit ffor collection of objects .
* IN the hive collection of items separated by delimiter with of same datatype

SYNTAX: create EXTERNAL TABLE IF NOT EXISTS tempest(temp\_date STRING,state STRING, temperature array<double>)

row format delimited

fields terminated by ‘\t’

collections items terminated by’,’;

# Map:

* Map is also a collection of objects which is mapping to 1-1 or 1-many.
* Map has an multiple delimiters in hive.

SYNTAX: CREATE TABLE IF NOT EXISTS myschool(schooltype STRING,state STRING, gender STRING, total map<int,int>)

ROW FORMAT DELIMITED

FIELDS DELIMITED BY ‘\t’

# Struct

* It is maily used for address purpose.
* In the struct there will be collection of multiple objects which includes Map with different datatypes.
* SYNTAX: CREATE EXTERNAL TABLE IF NOT EXISTS employees(name STRING, salary FLOAT ,address struct<city:STRING,state:STRING,zip:INT>)

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ‘\t’

COLLECTION ITEMS TERMINATED BY ‘,’;