**Problem Statement :**

How many kinds of tables are present in hive and explain the difference between them with a demo.

**Solution:**

Managed and External tables are the two different types of tables in hive used to improve how data is loaded, managed and controlled.

Hive has two types of tables:

* Managed table
* External table

**Managed Table:**

Managed table is also called as Internal table. This is the default table in Hive. When we create a table in Hive without specifying it as external, by default we will get a Managed table.

If we create a table as a managed table, the table will be created in a specific location in HDFS.

By default, the table data will be created in /usr/hive/warehousedirectory of HDFS.

If we delete a Managed table, both the table data and meta data for that table will be deleted from the HDFS.

Example of Managed Table:

create table managedtableemp(col1 datatype,col2 datatype, ....) row format delimited fields terminated by 'delimiter character' location '/data/employee'

If we execute the drop table then we will not find this table in hdfs.

**External Table:**

External table is created for external use as when the data is used outside Hive. Whenever we want to delete the table’s meta data and we want to keep the table’s data as it is, we use External table. External table only deletes the schema of the table.

If we create an External table, after deleting the table only the meta data related to table is deleted but not the contents of the table.

This will work only if your data is in **/user/hive/warehouse**directory. But if our data is in another location, if we delete the table the data will also get deleted. So in that case we need to mention the **external location**of the data while creating the table itself.

Example of External Table:

create external table managedtableemp(col1 datatype,col2 datatype, ....) row format delimited fields terminated by 'delimiter character' location '/data/employee'

If use the drop command then still we will find this table in that location. Only the metadata of the table will not be present.