# *View*

Hive views are logically structures that can be used to simplify queries by either hiding the complexity such as ***“JOINS”*** and Sub-queries flatting the data. Hive views does not store the data.

* Once the hive view is created hive schema is frozen immediately.
* Subsequent changes to the underlying (base table of a view) table changes will not be reflected in the view's schema.
* If an underlying table is dropped or changed, subsequent attempts to query the invalid view, view will be failing.
* When creating a view there is no ***“MapReduce”*** job triggered at all since this is only metadata change.
* However a proper **MapReduce** job will be triggered when querying the view.
* View is generated by based on the user requirements.
* It is standard RDBMS concept we can execute all DML commands on view.

***“Creating a view, before we should create a hive table.”***

Now we create ***“AndhraPradesh PIN codes***” table.

|  |
| --- |
| **hive (sekhar)> create table if not exists ap\_pincodes (id int,name string,**  **> pin string,mandal string,dist string,state string)**  **> row format delimited**  **> fields terminated by '\t'**  **> lines terminated by '\n'**  **> stored as textfile;** |

***Now we load data into table.***

***hive (sekhar)> load data local inpath '/home/sekhar/Desktop/pincodes/ap\_pincodes' into table ap\_pincodes;***

**Loading data into the table** ***“sekhar.ap\_pincodes”.***

***“Sekhar” is Database name.***

***(.) is separator operator between database and table.***

***“Ap\_pincodes” is Table & table name in “sekhar Database”***

**Let's we check the data will be properly loaded or not.**

**hive (sekhar)> select \* from ap\_pincodes limit 5;**

ap\_pin.id ap\_pin.name ap\_pin.pin ap\_pin.mandal ap\_pin.dist ap\_pin.state

1 Badankurthy\_B.O\_ 504203 0 ADILABAD ANDHRA\_PRADESH

2 Beernandi\_B.O 504203 0 ADILABAD ANDHRA\_PRADESH

3 Dilawarpur\_B.O 504203 0 ADILABAD ANDHRA\_PRADESH

4 Madhurawada\_S.O 530048 0 ADILABAD ANDHRA\_PRADESH

5 Mandapalli\_B.O 504203 0 ADILABAD ANDHRA\_PRADESH

***Now we create a view:***

**hive (sekhar)> create view ap\_pincodes\_atp as select \* from ap\_pincodes where dist = 'ANANTAPUR';**

View is created view name is **“ap\_pincodes\_atp”.**

**hive (sekhar)> select \* from ap\_pincodes\_atp limit 3;**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ap\_pincodes\_atp.id** | **ap\_pincodes\_atp.name** | **ap\_pincodes\_atp.pin** | **ap\_pincodes\_atp.mandal** | **ap\_pincodes\_atp.dist** | **ap\_pincodes\_atp.state** |
|  |  |  |  |  |  |

No rows affected.

**hive (sekhar)> alter view ap\_pincodes\_atp as select \* from ap\_pincodes;**

Now data is transfer from ***“ap\_pincodes”*** table to ***“ap\_pincodes\_atp”*** view.

Now using desc formatted command we get total information about view.

Now we want to delete a view;

**hive (sekhar)> drop view ap\_pincodes\_atp;**

It's delete the view.