```
1.enabling bucketing and partition
set hive.exec.dynamic.partition=true;
set hive.exec.dynamic.partition.mode=nonstrict;
set hive.enforce.bucketing=true
2.create normal table
create table products_no_buckets(
id int,
name string,
cost double,
category string)
row format delimited fields terminated by ',';
 FAILED: ParseException line 4:0 cannot recognize input near 'cast' 'double' ','
 hive> create table products_no_buckets(
      > id int,
      > name string,
      > cost double ,
      > category string)
      > row format delimited fields terminated by ',';
 Time taken: 0.58 seconds
 hive>
3.insert into normal table
 11MC CARCII. 0.30 30001M3
 hive> load data local inpath 'newproducts.csv' into table products_no_buckets
 Loading data to table dhiraj_itv002776.products_no_buckets
 Time taken: 0.949 seconds
 hive> ∏
```

Records after inserting:

```
hive> select * from products_no_buckets;
 OK
                                   mobiles
 1
            iPhone
                        379.99
            doll
 2
                        8.99
                                   toys
 3
            Galaxy X
                                   100.0
                                              mobile
 5
            Nokia Y 39.99
                                   mobile
 6
            truck
                        7.99
                                   toys
 7
            makeup 100.0
                                   fashion
            earings 69.0 fashion
 8
                                   furniture
 9
            chair
                        129.0
                        269.0
                                   furniture
 10
            table
 11
            waterpistol
                                   9.0
                                              toys
 Time taken: 12.076 seconds, Fetched: 10 row(s)
 hive> ∏
See path in hdfs:
 [itv002776@g01 ~]$ hadoop fs -ls /user/itv002776/warehouse/dhiraj_itv002776.db/products_no_buckets;
Found 1 items
 -rw-r--r-- 3 itv002776 supergroup
                            213 2022-11-12 23:23 /user/itv002776/warehouse/dhiraj_itv002776.db/products_
 no_buckets/newproducts.csv
[itv002776@g01 ~]$ [
4.4.create bucketed table on column:
create table products_partitioned_buckets(
id int.
name string,
cost double,
)
partitioned by (category string)
clustered by (id) into 4 Buckets
```

row format delimited fields terminated by ',';

5.inseert into partitioned,bucketed table insert into products_partitioned_buckets partition(category) select id,name,cost,category from products_no_buckets;

```
hive> insert into products_partitioned_buckets
   > partition(category)
    > select id,name,cost,category from products_no_buckets;
Query ID = itv002776_20221114224934_3976e15b-cf9f-442b-ba35-c2a5148a33cd
Total jobs = 2
Launching Job 1 out of 2
Number of reduce tasks determined at compile time: 4
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1658918988971_43068, Tracking URL = http://m02.itversity.com:19088/proxy/applicati
988971 43068/
Kill Command = /opt/hadoop/bin/mapred job -kill job_1658918988971_43068
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 4
2022-11-14 22:49:51,131 Stage-1 map = 0%, reduce = 0%
2022-11-14 22:49:54,218 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.79 sec
```

```
[itv002776@g01 ~]$ hadoop fs -ls /user/itv002776/warehouse/dhiraj_itv002776.db/products_partitioned_buckets;
Found 5 items
                                            0 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj_itv002776.db/p
drwxr-xr-x - itv002776 supergroup
roducts_partitioned_buckets/category=fashion
                                            0 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj_itv002776.db/p
drwxr-xr-x - itv002776 supergroup
roducts partitioned buckets/category=furniture
drwxr-xr-x - itv002776 supergroup
                                            0 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj_itv002776.db/p
roducts_partitioned_buckets/category=mobile
drwxr-xr-x - itv002776 supergroup
                                            0 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj_itv002776.db/p
roducts_partitioned_buckets/category=mobiles
drwxr-xr-x - itv002776 supergroup
                                            0 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj_itv002776.db/p
roducts partitioned buckets/category=toys
[itv002776@g01 ~]$ hadoop fs -ls /user/itv002776/warehouse/dhiraj_itv002776.db/products_partitioned_buckets/cat
```

```
[itv002776@g01 ~]$ hadoop fs -ls /user/itv002776/warehouse/dhiraj_itv002776.db/products_partitioned_buckets/cat
egory=fashion;
Found 4 items
-rw-r--r-- 3 itv002776 supergroup
                                           15 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj itv002776.db/p
roducts_partitioned_buckets/category=fashion/000000_0
                                            0 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj_itv002776.db/p
-rw-r--r-- 3 itv002776 supergroup
roducts_partitioned_buckets/category=fashion/000001_0
-rw-r--r-- 3 itv002776 supergroup
                                           0 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj_itv002776.db/p
roducts_partitioned_buckets/category=fashion/000002_0
                                        15 2022-11-14 22:50 /user/itv002776/warehouse/dhiraj itv002776.db/p
-rw-r--r-- 3 itv002776 supergroup
roducts_partitioned_buckets/category=fashion/000003_0
[itv002776@g01 ~]$ [
```

Get partitions on tables:

```
Show partitions products_partitioned_buckets

Time taken: 45.289 seconds
hive> Show partitions products_partitioned_buckets;
OK
category=fashion
category=furniture
category=mobile
category=mobiles
category=toys
Time taken: 0.161 seconds, Fetched: 5 row(s)
hive>
```