```
set hive.exec.dynamic.partition=true;
set hive.exec.dynamic.partition.mode=nonstrict;
set hive.enforce.bucketing=true;
set hive.cli.print.header=true;


CREATE TABLE student_bucket(
age int,
gender string,
name string,
course string,
roll int,
marks string,
email string)
clustered by(age) into 2 buckets
ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t'
stored as textfile;

insert into student_bucket select *  from student;


CREATE TABLE student_bucket(
age int,
gender string,
name string,
course string,
roll int,
marks string,
email string)
clustered by(age) into 3 buckets
ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t'
stored as textfile;
```

```
CREATE TABLE student_bucket(
age int,
gender string,
name string,
course string,
roll int,
marks string,
email string)
clustered by(age, course) into 5 buckets
ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t'
stored as avro
```

```
CREATE TABLE IF NOT EXISTS stocks_bucket (
exch STRING,
symbol STRING,
ymd STRING,
price_open FLOAT,
price_high FLOAT,
price_low FLOAT,
price_close FLOAT,
volume INT,
price_adj_close FLOAT)
PARTITIONED BY (exch_name STRING, yr STRING)
CLUSTERED BY (symbol) INTO 5 BUCKETS
ROW FORMAT DELIMITED FIELDS TERMINATED BY ',';

INSERT INTO TABLE stocks_bucket PARTITION(exch_name='ABCSE',yr)
SELECT *, Year(ymd) FROM stocks;
```

--Table sampling with out buckets

hive> SELECT *

FROM stocks TABLESAMPLE(BUCKET 3 OUT OF 5 ON symbol) s;

--Table sampling with buckets

hive> SELECT *

FROM stocks_bucket TABLESAMPLE(BUCKET 3 OUT OF 5 ON symbol) s;