**Lab 12- 31.3.23**

1. Cretae a table for student details with id,name,department, m1, m2, m3 and partitioned based on the department. List the student details for the “ece” department.
2. Cretae a table for student details with id,name,department, m1,m2,m3 and partitioned based on the department = “cse”. List the student details with m2>70..
3. Cretae a table for student details with id,name,department, m1,m2,m3 and stored in 2 differnet buckets as files.

Partitioning and Bucketing

1. **Dynamic Partition**

*create table dtpq(b string, c int, d int, e int) partitioned by (a int) row format delimited fields terminated by ',' stored as textfile;*

*set hive.exec.dynamic.partition = true;*

*set hive.exec.dynamic.partition.mode = nonstrict;*

*insert into table dtpq partition(a) select b,c,d,e,a from dtbl;*

1. **Static partition**

*create table stpq(a int,b string,d int,e int) partitioned by (c int) row format delimited fields terminated by ',' stored as textfile;*

*set hive.exec.dynamic.partition.mode = strict;*

*insert into table stpq partition(c = 90) select a,b,d,e from dtbl where c = 90;*

1. **Hybrid Partition**

*create table stph(a int,b string,e int) partitioned by (c int,d int) row format delimited fields terminated by ',' stored as textfile;*

*set hive.exec.dynamic.partition.mode = strict;*

*insert into table stph partition(c=90,d) select a,b,e,d from dtbl where c = 90;*

4.**Bucketing**

*set hive.enforce.bucketing = true;*

*create table buc(a int,b string, c int, d int, e int) clustered by (d) into 2 buckets row format delimited fields terminated by ',' stored as textfile;*

*insert overwrite table buc select a,b,c,d,e from dtbl;*