types of Hive Optimization Techniques for Queries:

1.Execution Engine,

2.Usage of Suitable File Format,

3.Hive Partitioning,

4.Bucketing in Apache Hive,

5.Vectorization in Hive,

6.Cost-Based Optimization in Hive,

7.Hive Indexing.

Optimization techniques

1.Use of vectorization:

Vectorized query execution improves performance of operations like scans, aggregations, filters and joins, by performing them in batches of 1024 rows at once instead of single row each time.

set hive.vectorized.execution = true

set hive.vectorized.execution.enabled = true

## 2,cost based optimization or internal rule-**based optimizer** (RBO):

## CBO, performs further optimizations based on query cost, resulting in potentially different decisions: how to order joins, which type of join to perform, degree of parallelism and others.

set hive.cbo.enable=true;

set hive.compute.query.using.stats=true;

set hive.stats.fetch.column.stats=true;

set hive.stats.fetch.partition.stats=true;