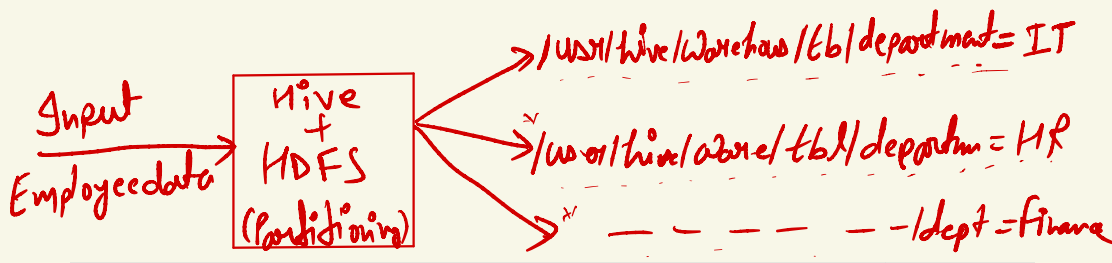# Partition in Hive

* Partitioning is a way of dividing a table into related parts based on the values of a particular column.

Employee (emp_name, salary, department)
  Normal table data in HDFS => /usr/hive/Warehouse/ table-name/.

Input
Employeedata → **Hive + HDFS (Partitioning)** → /usr/hive/Warehous/tbl/department= IT
→ /usr/hive/ware/tbl/department = HR
→ _ _ _ _ _ _ _ _ /dept = Finance

Partition Column → {Department}
  ↳ IT
  ↳ HR
  ↳ FINANCE

Ex:
  Select * from Employee where dept ='IT';

Types of Partitioning

→ Static Partitioning

→ Dynamic Partitioning

* Static Partioning :

→ Here value of partition Column will be known to us.

→ We load the data in a specific Partition

→ Static Partionting takes less time while loading the data.

*) Dynamic Partioning

↳ Here Column values will be unknown tous

↳ Hive will identify the unique values from partitioned Column.

↳ It takes longer time while loading the data.