





Components of YARN Client, Resquire Mgr, Selveduler, Application Myr, Data Node, File Block, Node Mgr, Container, Application Maste, (- Master Worker 12 - Node Worker.) Marter Node & Worker Node Hive is a Data Wase housing Infrastructure bulut on top of Hadoop to provide * Sal-like levery language called Hive avery land * Stonetured data analysis on large Datasets Stored in * Botch processing nathor than Real-terné transactions This batch processing is also referred to as Write-Once-Read-Mary (WORM Why use thise Farmiliarity to SQL-like Interface (HQL) makes it early Scalability & facult tolerance by reening Queri using Mapheduce og Tez. Supports multiple formats e-g text ORC, parque 2 - Drivers: Parses Queries, execution Plans Metastore: Staves Metadata (Schema, Partition, Execution Enquie: Converts Queries unto Mapheduce, 3 Hwe Storage (HOFS) Tez or Spork jobs Sloves actual Dota foles-

Execution Flow of a Carry Wertling 1. Query Submission via Ch, Beeline or JDBG 2. Quedy parsing and Completion 3. Execution Plan generation (Map Reduce /Tez) create tabl (-IdINT, nan 4. Query Execution & result retrival Princiture Dota Types. loading Int, Bigint, Freat, Double, Boolean, String & Date /Timestaryp LOAD DAT INTO TAG Complex Data type. Array, Map, Struct. Partitio Array = Array (int) Dartition Map = Map (String, int) Struct = Struct (name: String, age: Int) Create Syntaxes / Statements Common (i) Create dalabase myds: Buelleti for EXTERNAL TABLE ii) Use myds; (iii) create table employees (Create Create External Table id name String Salary Hout Hive 7) Row format delimeted field terminated by ","; String Tocation: Date Jui (W) Neart into employees Values (1, John, 5000) Aggregate 1 (2, 'Kelvin', 6000) (3, 'curry', 7000); Derfor - 10 e Select & from employees; (V) Exc trab => Se

weth Tables. External table by 3rd party Managed Table by Hive Create External table toblerome (Create table tablenane id int, some String) (IdINT, name String); LOCATION hdfs dfs/path T. rdfs dfs - put employees text/wer/hive/wavehouse/ LOAD DATA PATH /wer/hive/wavehouse/employees text INTO TACLE employees; Partitioning & Breeke ting Partitioning (Improves Overy Performance) Create tebre sales (id int, amount float) partitioned by (year int); Buelleting (Distributes deta ento Files) Create Itable wers! Ed int, names String) custered by (id) into 4 buckets; Hive Functions String function: Select Upper (name), lower (name from Eup; Dote function! Select Current date, Year (12025-03-18) from Emp; Aggregate in: Select Count (*), Sum (Salary) from Emp; Derformance Optimization - We ORC, or Parguet formats instead of text.
- 710 enable Partitioning & bucketing, Use Vector Query 111 => Set hive. vectorized. Execution, enabled = true; 111 => Set hive. Cb0. enabled = true;

- Apache Spark (Spark SQL Can run on the) - Apache HEase (Hive Can Query No SQL data) - Apache Airflow (for Job Scheduling).
- Apache Spank (Spank COI Convin on Hille)
- Apache HEase (Huis Can Quem No Cal data)
- Apacho, Airflow (for jot Schoduling):
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Hive Applications with Road-world 1140 Cases:
- log Anglys's (e.g. Web Sorver, logs)
Hive Applications with Real-World Use Cases: - log Analysi's (e.g. Web Server logs) - ETL pipelines (Extract-Transform-load practices) - Data Wavehowing (Aggregations, Reporting).
- Data Wavehowing (Aggregations, Reporting).
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