HBase & Hive - 5 Programs Each

# 🐝 Hive Programs

## Program 1: Create and Load Table

CREATE TABLE students (  
 id INT,  
 name STRING,  
 age INT  
)  
ROW FORMAT DELIMITED  
FIELDS TERMINATED BY ','  
STORED AS TEXTFILE;  
  
LOAD DATA LOCAL INPATH '/home/user/students.csv' INTO TABLE students;

## Program 2: Aggregation - Average Age

SELECT AVG(age) AS avg\_age FROM students;

## Program 3: Partitioned Table

CREATE TABLE sales (  
 sale\_id INT,  
 amount FLOAT  
)  
PARTITIONED BY (year INT)  
ROW FORMAT DELIMITED  
FIELDS TERMINATED BY ',';  
  
LOAD DATA LOCAL INPATH '/home/user/sales\_2022.csv' INTO TABLE sales PARTITION (year=2022);

## Program 4: Join Two Tables

CREATE TABLE employees (  
 id INT,  
 name STRING,  
 dept\_id INT  
);  
  
CREATE TABLE departments (  
 dept\_id INT,  
 dept\_name STRING  
);  
  
SELECT e.name, d.dept\_name  
FROM employees e  
JOIN departments d  
ON e.dept\_id = d.dept\_id;

## Program 5: Top N Query

SELECT \* FROM employees  
ORDER BY salary DESC  
LIMIT 5;

# 🧱 HBase Programs

## Program 1: Create Table and Insert Data

create 'books', 'info'  
put 'books', '1', 'info:title', '1984'  
put 'books', '1', 'info:author', 'George Orwell'  
put 'books', '2', 'info:title', 'To Kill a Mockingbird'  
put 'books', '2', 'info:author', 'Harper Lee'

## Program 2: Retrieve Specific Row

get 'books', '1'

## Program 3: Scan Full Table

scan 'books'

## Program 4: Update Column Value

put 'books', '2', 'info:title', 'To Kill a Mockingbird (Updated)'

## Program 5: Delete a Column and Row

delete 'books', '2', 'info:author'  
deleteall 'books', '2'