Steps to install docker and Impala in Ubuntu

**INSTALLING IMAPALA** 

1. INSTALL DOCKER

# Update system packages

sudo apt update

# Install prerequisites

sudo apt install apt-transport-https ca-certificates curl software-properties-common -y

# Add Docker's official GPG key

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg

# Add Docker APT repository

echo \

"deb [arch=\$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \

\$(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

# Update package index again

sudo apt update

# Install Docker

sudo apt install docker-ce -y

# Start Docker and enable it to launch at boot

sudo systemctl start docker

sudo systemctl enable docker

#Add current user to docker group so you don't need sudo

sudo usermod -aG docker \$USER

- 2. docker pull josemyd/all-in-one-impala-kudu
- 3. docker run -it --name impala-kudu-container josemyd/all-in-one-impala-kudu
- 4. docker exec -it impala-kudu-container impala-shell

```
SHOW DATABASES;
CREATE DATABASE sl3_impala;
USE sl3 impala;
CREATE TABLE employees (
  id INT,
  name STRING,
  department STRING,
  salary DOUBLE
)
STORED AS PARQUET;
INSERT INTO employees VALUES
(1, 'Aarav', 'Engineering', 95000),
(2, 'Priya', 'Marketing', 72000),
(3, 'Rohan', 'Finance', 85000),
(4, 'Saanvi', 'Engineering', 98000),
(5, 'Karthik', 'Engineering', 87000),
(6, 'Neha', 'Marketing', 74000);
SELECT * FROM employees WHERE department = 'Engineering';
SELECT * FROM employees WHERE salary > 90000;
SELECT department, AVG(salary) AS avg_salary FROM employees GROUP BY
department;
SELECT * FROM employees ORDER BY salary DESC LIMIT 3;
```

SELECT e.name, e.department, e.salary FROM employees e

JOIN ( SELECT department, AVG(salary) AS avg\_salary FROM employees

**GROUP BY department** 

) dept\_avg

ON e.department = dept avg.department

WHERE e.salary < dept avg.avg salary;









