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| EXP NO: 8 | Implement a program using Hive indexes |
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| DATE: |  |

**AIM: -**

**BACKGROUND THEORY: -**

# **PROCEDURE: -**

* Switch to superuser mode using sudo su.
* Start Hive
* Create a Hive Table
* Load Data into the Table
* Create an Index on the Table
* Rebuild the Index
* Query the Table Using the Index
* Drop the Index (Optional)

# **CODING: -**

* sudo su
* -- Step 1: Start Hive
  + hive
* -- Step 2: Create a Hive Table
  + CREATE TABLE employees (
  + id INT,
  + name STRING,
  + age INT,
  + department STRING
  + ) ROW FORMAT DELIMITED
  + FIELDS TERMINATED BY ','
  + STORED AS TEXTFILE;
* -- Step 3: Load Data into the Table
  + LOAD DATA LOCAL INPATH '/path/to/your/employees.csv' INTO TABLE employees;
* -- Step 4: Create an Index on the Table
  + CREATE INDEX idx\_department
  + ON TABLE employees (department)
  + AS 'org.apache.hadoop.hive.ql.index.compact.CompactIndexHandler'
  + WITH DEFERRED REBUILD;
* -- Step 5: Rebuild the Index
  + ALTER INDEX idx\_department ON employees REBUILD;
* -- Step 6: Query the Table Using the Index
  + SELECT \* FROM employees WHERE department = 'Sales';
* -- Step 7: Drop the Index (Optional)
  + DROP INDEX idx\_department ON employees;

# **OUTPUT: -**

