EXP NO: 8 DATE:	Implement a program using Hive indexes					
AIM: -						
BACKGROUND THEO	RY: -					

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
 - o hive
- -- Step 2: Create a Hive Table
 - o CREATE TABLE employees (
 - o id INT,
 - o name STRING,
 - o 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
 - o CREATE INDEX idx department
 - o ON TABLE employees (department)
 - o AS 'org.apache.hadoop.hive.ql.index.compact.CompactIndexHandler'
 - WITH DEFERRED REBUILD;

- -- Step 5: Rebuild the Index
 - o 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)
 - o DROP INDEX idx_department ON employees;

OUTPUT: -

7839	KING	PRESIDE	ENT	Θ	17/No	v/1981	5000	Θ	10
7698	BLAKE	MANAGER	7839	01/May/	1981	2850	Θ	30	
7782	CLARK	MANAGER	7839	06/Sep/	1981	2450	Θ	10	
7566	JONES	MANAGER	7839	04/Feb/	1981	2975	Θ Θ	20	
7788	SCOTT	ANALYST	7566	13/Jul/	87	3000	Θ	20	
7902	FORD	ANALYST	7566	03/Dec/	1981	3000	Θ	20	
7369	SMITH	CLERK	7902	17/Dec/	1980	800	Θ	20	
7499	ALLEN	SALESMA	IN	7698	20/Fe	b/1981	1600	300	30
7521	WARD	SALESMAN		7698	7698 22/Feb/1981		1250	500	30
7654	MARTIN	SALESMAN		7698	7698 28/Sep/1981		1250	1400	30
7844	TURNER	SALESMAN		7698 09/Aug/1981		1500	Θ	30	
7876	ADAMS	CLERK	7788	13/Jul/	87	1100	Θ	20	
7900	JAMES	CLERK	7698	03/Dec/	1981	950	Θ	30	
7934	MILLER	CLERK	7782	23/Jan/	1982	1300	Θ	10	
hive> ql.ind OK	CREATE IN	DEX idx_ t.Compac	empid_e tIndexH	ched: 14 mp ON TAB andler' W	LE emp			pache.ha	doop.hive