

EXP NO: 9	Implement a program using Hive Views
DATE:	

AIM: -

BACKGROUND THEORY: -

PROCEDURE: -

- Switch to superuser mode using sudo su.
- Start Hive
- Create a Hive Table
- Load Data into the Table
- Create a View
- Query the View
- Update the View (Optional)
- Drop the View (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 a View
 - CREATE VIEW sales_employees AS
 - SELECT id, name, age
 - FROM employees
 - WHERE department = 'Sales';

- -- Step 5: Query the View
 - `SELECT * FROM sales_employees;`
- -- Step 6: Update the View (Optional)
 - `DROP VIEW sales_employees;`
 - `CREATE VIEW sales_employees AS`
 - `SELECT id, name, age, department`
 - `FROM employees`
 - `WHERE department = 'Sales';`
- -- Step 7: Drop the View (Optional)
 - `DROP VIEW sales_employees;`

OUTPUT: -

```
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hive> CREATE TABLE serde_example(
    >   hosts STRING,
    >   identitys STRING,
    >   users STRING,
    >   times STRING,
    >   request STRING,
    >   status STRING,
    >   sizes STRING,
    >   referer STRING,
    >   agent STRING)
    > ROW FORMAT SERDE 'org.apache.hadoop.hive.contrib.serde2.RegexSerDe'
    > WITH SERDEPROPERTIES (
    >   "input.regex" = "([^ ]*) ([^ ]*) ([^ ]*) (-|\\|\\|\\|\\|\\|\\|)*\\| ([^ \\"]*|\"[^\"]*\")
\\") (-|[0-9]*) (-|[0-9]*)(?:([^\\"|\\\"\\\\\"]*)|([^\\"|\\\"\\\\\"]*)\\\"))?",
    >   "output.format.string" = "%1$s %2$s %3$s %4$s %5$s %6$s %7$s %8$s %9$s"
    > )
    > STORED AS TEXTFILE
    > LOCATION '/hive/warehouse/cloudduggudb.db/serde_example';
OK
Time taken: 3.573 seconds
hive> LOAD DATA LOCAL INPATH "/home/cloudduggu/hive/examples/files/apache.access.log"
INTO TABLE serde_example;
Loading data to table cloudduggudb.serde_example
OK
Time taken: 3.051 seconds
hive>
```