NAMRATHA V	7
1BM17CS151	
C3	

LAB 9- Hive: Employee Table

Date: 21-12-2020

Write Queries in Hive to do the following

- Create an external table named with the following attributes -> Empl_ID >Emp Name -> Designation -> Salary
- 2. Load data into table from a given file
- 3. Create a view to Generate a query to retrieve the employee details who earn a salary of more than Rs 30000.
- 4. Alter the table to add a column Dept_Id and Generate a query to retrieve the employee details in order by using Dept_Id
- 5. Generate a query to retrieve the number of employees in each department whose salary is greater than 30000
- 6. Create another table Department with attributes -> Dept_Id ->Dept_name >Emp_Id
- 7. Display the cumulative details of each employee along with department details
- 1. Create an external table named with the following attributes -> Empl_ID ->Emp_Name -> Designation -> Salary

```
>CREATE DATABASE IF NOT EXISTS EMPLOYEES_151 COMMENT 'EMPLOYEE
Details' WITH DBPROPERTIES('creator'='Namratha');
>SHOW DATABASES;
>DESCRIBE DATABASE EMPLOYEE_151;
>USE EMPLOYEES_151;
> CREATE EXTERNAL TABLE IF NOT EXISTS EMPLOYEE_151(EMP_ID
INT,EMP_NAME STRING,DESIGNATION STRING,SALARY FLOAT) ROW FORMAT
DELIMITED FIELDS TERMINATED BY '\T' LOCATION '/EMPLOYEE_INFO';
>DESCRIBE FORMATTED EMPLOYEE 151;
```

```
1 CREATE DATABASE IF NOT EXISTS EMPLOYEES_151 COMMENT 'EMPLOYEE Details' WITH DBPROPERTIES('creator'='Namratha');
2 SHOW DATABASES;
3 DESCRIBE DATABASE EMPLOYEES_151;

db_name comment location owner_name owner_type paramete

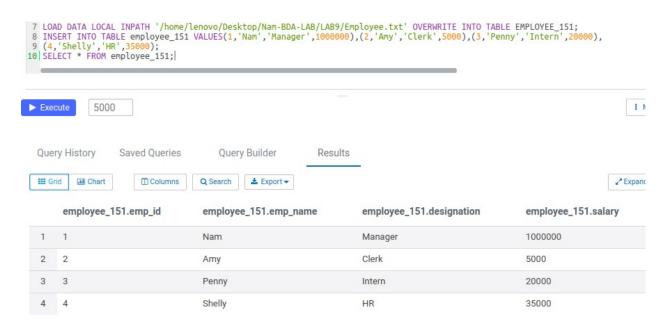
1 employees_151 EMPLOYEE Details hdfs://namenode:8020/user/hive/warehouse/employees_151.db root USER

4 USE EMPLOYEES_151;
5 CREATE EXTERNAL TABLE IF NOT EXISTS EMPLOYEE_151 (Emp_ID INT,Emp_Name STRING,Designation STRING,Salary FLOAT)
6 ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t' LOCATION '/EMPLOYEE_INFO';
7 DESCRIBE FORMATTED EMPLOYEE_151;
```

	col_name	data_type	comme
3	emp_id	int	
4	emp_name	string	
5	designation	string	
6	salary	float	
7		NULL	NULL
8	# Detailed Table Information	NULL	NULL
9	Database:	default	NULL
10	Owner:	root	NULL
11	CreateTime:	Sun Dec 20 04:38:18 UTC 2020	NULL
12	LastAccessTime:	UNKNOWN	NULL
13	Retention:	0	NULL
14	Location:	hdfs://namenode:8020/EMPLOYEE_INFO	NULL
15	Table Type:	EXTERNAL_TABLE	NULL
16	Table Parameters:	NULL	NULL
17		EXTERNAL	TRUE
18		transient_lastDdlTime	160843
19		NULL	NULL ^

2. Load data into table from a given file

>INSERT INTO TABLE EMPLOYEE_151
VALUES(1,'Nam','Manager',1000000),(2,'Amy','Clerk',50000),(3,'Pen
ny','Intern',20000),(4,'Shelly','HR',35000);
>SELECT * FROM EMPLOYEE_151;



3. Create a view to Generate a query to retrieve the employee details who earn a salary of more than Rs 30000.

>CREATE VIEW EMPLOYEE_VIEW AS SELECT * FROM EMPLOYEE_151 WHERE
SALARY>30000;
>SELECT * FROM EMPLOYEE VIEW;

10 CREATE VIEW EMPLOYEE_VIEW AS SELECT * FROM employee_151 WHERE Salary>30000;
11 SELECT * FROM EMPLOYEE_VIEW;

employee_view.emp_id employee_view.emp_name employee_view.designation employee_view.salary

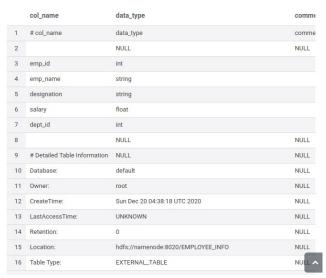
1 1 Nam Manager 1000000

2 4 Shelly HR 35000

4. Alter the table to add a column Dept_Id and Generate a query to retrieve the employee details in order by using Dept_Id

>ALTER TABLE EMPLOYEE_151 ADD COLUMNS (DEPT_ID INT); >DESCRIBE FROMATTED EMPLOYEE_151;

12 ALTER TABLE EMPLOYEE_151 ADD COLUMNS (Dept_ID INT);
13 DESCRIBE FORMATTED EMPLOYEE_151;



5. Generate a query to retrieve the number of employees in each department whose salary is greater than 30000

SELECT DEPT_ID, COUNT(DEPT_ID) FROM EMPLOYEE_151 WHERE SALARY > 30000 GROUP BY DEPT_ID;

6. Create another table Department with attributes -> Dept_Id ->Dept_name ->Emp_Id

CREATE EXTERNAL TABLE IF NOT EXISTS DEPARTMENT_151(DEPT_ID INT, DEPT_NAME STRING, EMP_ID INT) ROW FORMAT DELIMITED FIELDS TERMINATED BY '\T' LOCATION '/DEPARTMENT';

7. Display the cumulative details of each employee along with department details

SELECT * FROM EMPLOYEE_151 JOIN DEPARTMENT_151 ON
EMPLOYEE_151.DEPT_ID = DEPARTMENT_151.DEPT_ID;