BDA LAB HIVE PROGRAM

Write Queries in Hive to do the following

- Create an external table named with the following attributes -> Emp_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
- Create an external table named with the following attributes -> Empl_ID
 ->Emp_Name -> Designation -> Salary

```
CREATE DATABASE IF NOT EXISTS lab9 COMMENT 'employee program' WITH DBPROPERTIES ('creator'=Aditya);
SHOW DATABASES;
DESCRIBE DATABASE lab9;
USE lab9;
CREATE EXTERNAL TABLE IF NOT EXISTS Employee(EmpID INT, EmpName
STRING, Designation STRING, Salary FLOAT) ROW FORMAT DELIMITED FIELDS TERMINATED
BY '\t';
```

2. Load data into table from a given file

```
SELECT * FROM Employee;
```

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

```
CREATE VIEW emp_30000 AS SELECT * FROM Employee WHERE
Salary>30000;
SELECT * FROM emp_30000;
```

4. Alter the table to add a column Dept_Id and Generate a query to retrieve the

```
ALTER TABLE Employee ADD COLUMNS(DeptID INT);
LOAD DATA LOCAL INPATH
'/home/sumukh/Desktop/employeeInputAltered.txt'
OVERWRITE INTO TABLE Employee;
SELECT * FROM Employee;
SELECT * FROM Employee ORDER BY DeptID;
```

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

SELECT DeptID,count(*) FROM Employee WHERE Salary>=30000 GROUP
BY DeptID;

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

```
CREATE EXTERNAL TABLE IF NOT EXISTS Department(Deptid INT,DeptName STRING) ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t'; LOAD DATA LOCAL INPATH '/home/sumukh/Desktop/DepartmentInput.txt' OVERWRITE INTO TABLE Department; SELECT * FROM Department;
```

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

```
SELECT a.EmpID,a.EmpName,a.Designation,a.Salary,b.DeptName FROM Employee a JOIN Department b ON a.DeptID=b.DeptId;
```



```
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Job running in-process (local Hadoop)
2020-12-19 03:18:13,778 Stage-3 map = 100%, reduce = 0%
Ended Job = job_local1327814845_0003
MapReduce Jobs Launched:
Stage-Stage-3: HDFS Read: 1542 HDFS Write: 546 SUCCESS
Total MapReduce CPU Time Spent: 0 msec

OK

1 John Manager 50000.0 Business Management
2 Kelly Sr. Manager 60000.0 Business Management
3 Harry Software Engineer 45000.0 Development
5 Tom Test Engineer 20000.0 Testing
6 Ubern Test Engineer 20000.0 Testing
7 Rohan HR manager 25000.0 HR
8 Joana Software Engineer 23000.0 Development
Time taken: 51.043 seconds, Fetched: 8 row(s)
```

```
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