Assignment 3.4

Note: Since no data is provided, using following dataset

```
[acadgild@localhost ~]$ cat employee_salary.csv
1,Sameer,3215,Sales
2,Anand,1154,IT
3,Juhi,6547,IT
4,Aman,2154,Sales
S,Satya,1254,IT
5,Rahul,3654,IT
,Rohit,1256,Sales
8,Arjun,3247,Sales
,Shubh,1398,IT
10,Anjali,3541,IT
11,Rohini,2564,Sales
12,Anusha,2849,Sales
13,Kabir,3357,IT
14,Sana,1547,Sales
15, Sandeep, 1657, IT
```

CREATE EXTERNAL TABLE IF NOT EXISTS employee_salary (id int, name String, salary int, unit String) ROW FORMAT DELIMITED FIELDS TERMINATED BY ',';

LOAD DATA LOCAL INPATH '/home/acadgild/employee_salary.csv' INTO TABLE employee_salary;

```
hive> CREATE EXTERNAL TABLE IF NOT EXISTS employee_salary (id int, name String, salary int, unit String) ROW FORMAT D
ELIMITED FIELDS TERMINATED BY ',';
OK
Time taken: 0.034 seconds
hive> LOAD DATA LOCAL INPATH '/home/acadgild/employee_salary.csv' INTO TABLE employee_salary;
Loading data to table custom.employee_salary
OK
Time taken: 0.532 seconds
```

1. Get a list of employees who receive a salary less than 100, compared to their immediate employee with higher salary in the same unit

WITH temp as (SELECT id, name, salary, unit , LEAD(salary,1) OVER (PARTITION BY unit ORDER BY salary) - salary AS salary_diff FROM employee_salary) SELECT * FROM temp WHERE salary_diff < 100;

hive> WITH temp as (SELECT id, name, salary, unit , LEAD(salary,1) OVER (PARTITION BY unit ORDER BY salary) - salary AS salary_diff FROM employee_salary) SELECT * FROM temp WHERE salary_diff < 100;

```
OK
1 Sameer 3215 Sales 32
Time taken: 27.918 seconds, Fetched: 1 row(s)
```

2. List of all employees who draw higher salary than the average salary of that department

select * from employee_salary a WHERE salary > (SELECT avg(salary) FROM employee_salary b where b.unit = a.unit GROUP BY unit);

hive> select * from employee_salary a WHERE salary > (SELECT avg(salary) FROM employee_salary b where b.unit = a.unit GROUP BY unit);

```
Sales
        Sameer 3215
3
        Juhi
              6547
                       ΙT
6
       Rahul 3654
                       IT
       Arjun 3247
                       Sales
10
       Anjali 3541
                       ΙT
11
       Rohini 2564
                       Sales
       Anusha 2849
12
                       Sales
13
       Kabir
              3357
                       ΙT
Time taken: 91.352 seconds, Fetched: 8 row(s)
```