## DAY 4

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#### Tasks:

- 1. Find the nth maximum salary from the employee table using correlated subquery.
- 2. Create a function which takes 2 numbers as input and return the maximum value.
- 3. Write a query to display account number and total amount deposited by each account holder (Including the opening balance). Give the total amount deposited an alias name of Deposit\_Amount. Display the records in sorted order based on account number.- Use the tables created in the previous handson.
- 4.Create table branch\_master with columns branch\_id VARCHAR(6) -primary key branch\_name VARCHAR(30) branch\_city VARCHAR(30) and Insert values into branch master.
- 5. Add column branch\_id in accounts\_master and refer as foreign key to branch\_id of branch\_master.

## Solution:

#### 1.Query:

select salary from employee;

SELECT DISTINCT e1.salary as nth\_max\_salary FROM employee e1 WHERE (SELECT COUNT(DISTINCT e2.salary) FROM employee e2 WHERE e2.salary > e1.salary) = 4;

## Output:



# 2.Query:

```
delimiter //
create function max_value(n1 int, n2 int)
returns int
deterministic
begin
  declare res int;
  if(n1 > n2) then
      set res = n1;
  else
      set res = n2;
  end if;
  return res;
end //
delimiter;
```

select max\_value(10,20) Max\_of\_two\_nums;

## Output:

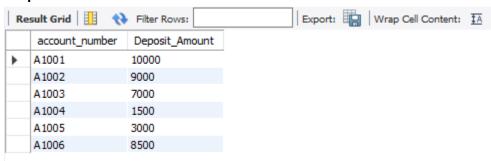


### 3. Query:

select a.account\_number, coalesce(sum(t.transaction\_amount), 0) + a.opening\_balance Deposit Amount

from account a left join transaction\_details t on a.account\_number = t.account\_number and t.transaction\_type ='deposit' group by a.account\_number, a.opening\_balance order by a.account\_number;

### Output:



#### 4. Query:

create table branch\_master(branch\_id varchar(6) primary key, branch\_name varchar(30), branch\_city varchar(30));

desc branch master;

insert into branch master values

('B01', 'Main Street Branch', 'Chennai'),

('B02', 'MG Road Branch', 'Salem'),

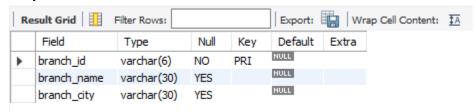
('B03', 'Park Avenue Branch', 'Coimbatore'),

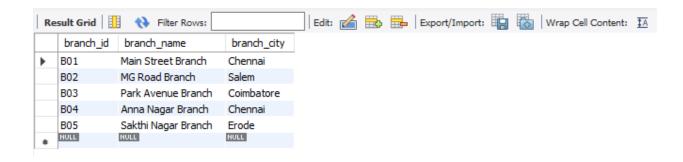
('B04', 'Anna Nagar Branch', 'Chennai'),

('B05', 'Sakthi Nagar Branch', 'Erode');

select \* from branch\_master;

### Output:





# 5.Query:

alter table account add constraint fk foreign key(branch\_id) references branch\_master(branch\_id) on delete set null;

desc account;

#### Output:

