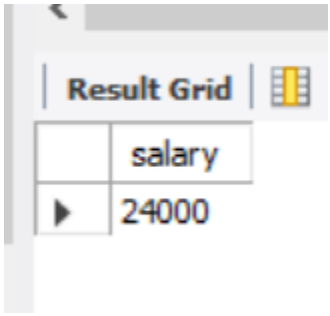
DAY 4

NAME: NANCY M
DATE : 10-07-2025

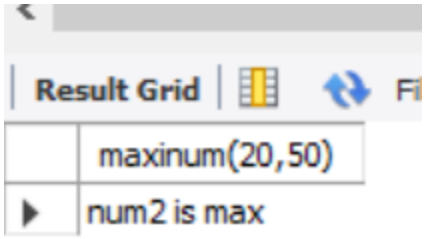
1. Find the nth maximum salary from the employee table using correlated subquery.

```
 select distinct e1.salary from employee_info e1
where  (
select count(distinct e2.salary)  from employee_info e2 where e2.salary > e1.salary) =  0;
```



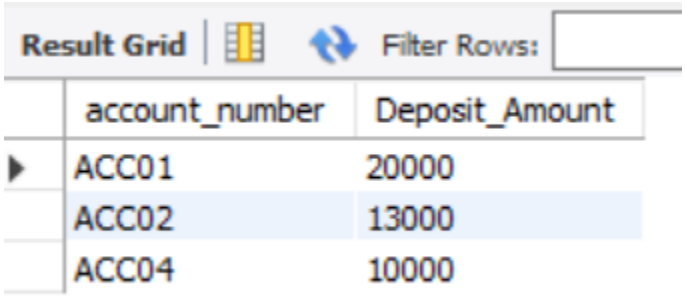
2.Create a function which takes 2 numbers as input and return the maximum value.

```
DELIMITER //
create function maxi_num(num_1 int,num_2 int)
returns varchar(30)
DETERMINISTIC
BEGIN
 declare max_value varchar(30);
if num_1<num_2 then
 set max_value="num2 is max";
else
 set  max_value="num1 is max";
end if;
return max_value;
end //
DELIMITER ;
select maxi_num(20,50);
```



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.

```
SELECT
    a.account_number,
    a.opening_balance + IFNULL(SUM(t.transaction_amount), 0) AS Deposit_Amount
FROM
    account a
LEFT JOIN
    transaction_details t ON a.account_number = t.account_number
WHERE
    t.transaction_type = 'Deposit'
 GROUP BY
    a.account_number, a.opening_balance
ORDER BY
    A.account_number;
```



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 .

```
Create table branch_master (
    branch_id VARCHAR(6) primary key,
    branch_name VARCHAR(30),
    branch_city VARCHAR(30));

    INSERT INTO branch_master (branch_id, branch_name, branch_city) VALUES
('BR001', 'Main Branch', 'Chennai'),
('BR002', 'West Branch', 'Coimbatore'),
('BR003', 'North Branch', 'Madurai'),
('BR004', 'East Branch', 'Salem'),
('BR005', 'South Branch', 'Trichy');
```

Result Grid | Filter Rows:

branch_id	branch_name	branch_city
BR001	Main Branch	Chennai
BR002	West Branch	Coimbatore
BR003	North Branch	Madurai
BR004	East Branch	Salem
BR005	South Branch	Trichy

5. Add column branch_id in accounts_master and refer as foreign key to branch_id of branch_master.

```
alter table  account add constraint branch_id_foreignkey foreign key(branch_id) references
branch_master(branch_id);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conte

Field	Type	Null	Key	Default	Extra
account_number	varchar(20)	NO	PRI	NULL	
customer_number	varchar(20)	YES	MUL	NULL	
branch_id	varchar(10)	YES	MUL	NULL	
opening_balance	double	YES		NULL	
account_opening_date	date	YES		NULL	
account_type	varchar(10)	YES		NULL	