Name : Narendra kumar S
Date : 10-07-2025

Task:

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

Solution:

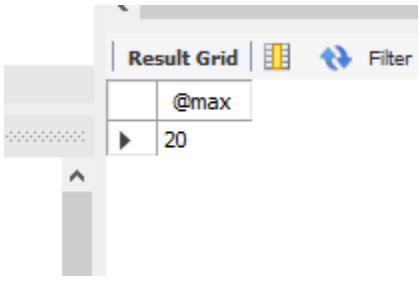
```
select distinct e1.salary from employee e1 where n -1 = (select count(distinct salary) from
employee e2 where e2.salary>e1.salary );
```

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

Solution:

```
delimiter //
drop function if exists get_maximum //
create function get_maximum(num1 int,num2 int)
returns int
deterministic
begin
declare result int;
if num1>num2 then
set result = num1;
else
set result = num2;
end if;
return result;
end //
delimiter ;
set @num1 = 10;
set@num2 = 20;
set @max = get_maximum(@num1,@num2);
select @max;
```

Output:

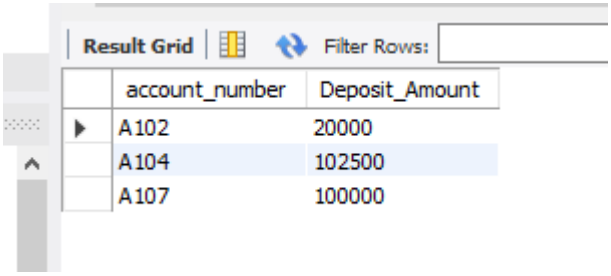


3.Write a query to display account number and total amount deposited by each account holder (Including the opening balance). Give the total amount deposited an alias name of Deposit_Amount. Display the records in sorted order based on account number

Solution:

```
select acc.account_number,sum(transaction_amount)+opening_balance as
Deposit_Amount from account acc join transaction_details td
on acc.account_number = td.account_number
where td.transaction_type='debit'
group by account_number;
```

Output:



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

Solution:

```
create table branch_master(
branch_id varchar(6) primary key,
branch_name varchar(30),
branch_city varchar(30));
```

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

Solution:

```
alter table account add column branch_id varchar(10);
alter table account add constraint foreign key(branch_id) references
branch_master(branch_id);
```