Day 4

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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;
```

	salary
▶	24000

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

```
delimiter //
create function get_max(a int, b int)
returns int
deterministic
begin
declare result int;
if a > b then
set result = a;
else
set result = b;
end if;
return result;
end //
delimiter ;

select get_max(10, 20);
```

	get_max(10, 20)
▶	20

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' or t.transaction_type is null
group by a.account_number, a.opening_balance
```

order by a.account_number;

account_number	Deposit_Amount
A02	10000
A03	26500
A05	11000

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));
```

Field	Type	Null	Key	Default	Extra
branch_id	varchar(6)	NO	PRI	NULL	
branch_name	varchar(30)	YES		NULL	
branch_city	varchar(30)	YES		NULL	

```
insert into branch_master values
('B01', 'siruseri', 'Chennai'),
('B02', 'hopes', 'Coimbatore'),
('B03', 'gandhi nagar', 'Madurai');
```

branch_id	branch_name	branch_city
B01	siruseri	Chennai
B02	hopes	Coimbatore
B03	gandhi nagar	Madurai
NULL	NULL	NULL

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

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

Field	Type	Null	Key	Default	Extra
account_number	varchar(20)	NO	PRI	NULL	
customer_number	varchar(20)	YES	MUL	NULL	
branch_id	varchar(6)	YES	MUL	NULL	
opening_balance	double	YES		NULL	
account_opening_date	date	YES		NULL	
account_type	varchar(10)	YES		NULL	
account_status	varchar(10)	YES		NULL	