

day 4

10/07/25

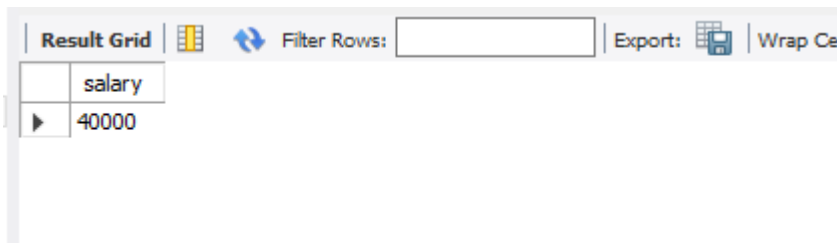
1. Find the nth maximum salary from the employee table using correlated subquery.

select distinct salary from trainee t1

where (select count(distinct salary) from trainee t2

where t2.salary>t1.salary)=n-1;

for 3rd maximum value



The screenshot shows a database interface with a 'Result Grid' tab. The grid contains one column labeled 'salary' and one row with the value '40000'. Above the grid, there is a 'Filter Rows:' field and an 'Export:' button. To the right of the 'Export:' button, the text 'Wrap Ce' is partially visible.

salary
40000

2. create a fuction which takes 2 numbers as input and return the maximum value

delimiter //

create function getmaximum(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 getmaximum(5,10);
```

Result Grid		Filter Rows:
	getmaximum(5,10)	
▶	10	

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.

```
select t.account_number,sum(transaction_amount)+
```

```
(select opening_balance from account a where a.account_number =t.account_number) as  
deposit_amount
```

```
from transaction_details t
```

```
where transaction_type='deposit' group by account_number
```

```
order by t.account_number;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
account_number	deposit_amount			
ACC002	12000			
ACC004	22500			

4. create table branch_master with columns

```
branch_id varchar(6) -primary kkey
```

```
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
```

```
('B001', 'Main Branch', 'chennai'),
('B002', 'West Branch', 'mumbai'),
('B003', 'East Branch', 'chennai'),
('B004', '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 acc_bran_fk foreign key (branch_id) references
```

```
branch_master(branch_id);
```

Result Grid Filter Rows: Export: Wrap Cell Content:						
	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	
	account_status	varchar(10)	YES		NULL	