Name:Dharunya 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 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;

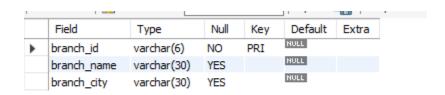
	account_number	Deposit_Amount
١	A02	10000
	A03	26500
	A05	11000

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));



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	