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

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

```
Query: delimiter //
create function findMax(num1 int, num2 int)
returns int
deterministic
begin
    if num1 > num2 then
        return num1;
    else
        return num2;
    end if;
end //
delimiter;
select findMax(2,4);
```

Step 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.

Query: select td.account_number, sum(td.transaction_amount)+ac.opening_balance from account ac join transaction_details td where ac.account_number=td.account_number and td.transaction_type = 'deposit' group by ac.account_number;

	account_number	Deposit_Amount
•	1001	2500.5
	1003	1000.75

Step 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

Query: 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', 'Coimbatore'),

('BR002', 'Downtown Branch', 'Chennai'),

('BR003', 'Uptown Branch', 'Pollachi'),

('BR004', 'Westside Branch', 'Coimbatore'),

('BR005', 'Eastend Branch', 'Chennai');

	_					
	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	

-			
	branch_id	branch_name	branch_city
•	BR001	Main Branch	Coimbatore
	BR002	Downtown Branch	Chennai
	BR003	Uptown Branch	Pollachi
	BR004	Westside Branch	Coimbatore
	BR005	Eastend Branch	Chennai
	NULL	NULL	NULL

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

Query: alter table account add constraint ac_fk foreign key(branch_id) references branch_master(branch_id);

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	Field	Type	Null	Key	Default	Extra
•	account_number	varchar(20)	NO	PRI	NULL	
	customer_number	int	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	