

DAY 4

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Tasks:

1. Find the nth maximum salary from the employee table using correlated subquery.
2. Create a function which takes 2 numbers as input and return the maximum value.
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.
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 .
5. Add column branch_id in accounts_master and refer as foreign key to branch_id of branch_master.

Solution:

1.Query:

select salary from employee;

```
SELECT DISTINCT e1.salary as nth_max_salary
FROM employee e1
WHERE (SELECT COUNT(DISTINCT e2.salary)
      FROM employee e2
      WHERE e2.salary > e1.salary) = 4;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
salary			
52000			
32000			
47000			
37000			
50000			
20000			
45000			
32000			

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
nth_max_salary			
37000			

2.Query:

delimiter //

create function max_value(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 max_value(10,20) Max_of_two_nums;

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Max_of_two_nums			
20			

3.Query:

```
select a.account_number, coalesce(sum(t.transaction_amount), 0) + a.opening_balance  
Deposit_Amount  
from account a left join transaction_details t on a.account_number = t.account_number  
and t.transaction_type ='deposit' group by a.account_number, a.opening_balance  
order by a.account_number;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
account_number	Deposit_Amount		
A1001	10000		
A1002	9000		
A1003	7000		
A1004	1500		
A1005	3000		
A1006	8500		

4.Query:

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

```
desc branch_master;
```

```
insert into branch_master values  
( 'B01', 'Main Street Branch', 'Chennai'),  
( 'B02', 'MG Road Branch', 'Salem'),  
( 'B03', 'Park Avenue Branch', 'Coimbatore'),  
( 'B04', 'Anna Nagar Branch', 'Chennai'),  
( 'B05', 'Sakthi Nagar Branch', 'Erode');
```

```
select * from branch_master;
```

Output:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	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	

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	branch_id	branch_name	branch_city
▶	B01	Main Street Branch	Chennai
	B02	MG Road Branch	Salem
	B03	Park Avenue Branch	Coimbatore
	B04	Anna Nagar Branch	Chennai
	B05	Sakthi Nagar Branch	Erode
*	NULL	NULL	NULL

5.Query:

alter table account add constraint fk foreign key(branch_id)
references branch_master(branch_id) on delete set null;

desc account;

Output:

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	