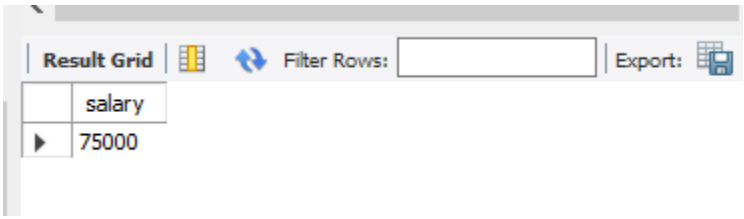
TASK - 5

NAME : SANJEEV N
DATE : 11-07-2025

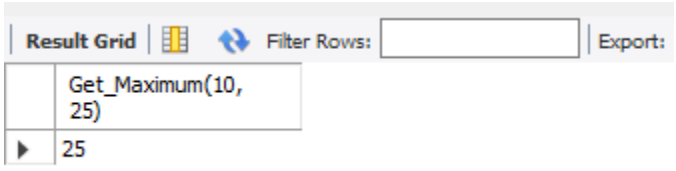
1. **Find the Nth maximum salary from the employee table using correlated subquery**

```
SELECT DISTINCT salary
FROM employee_details e1
WHERE 2 = (
SELECT COUNT(DISTINCT salary)
FROM employee_details e2
WHERE e2.salary > e1.salary);
```



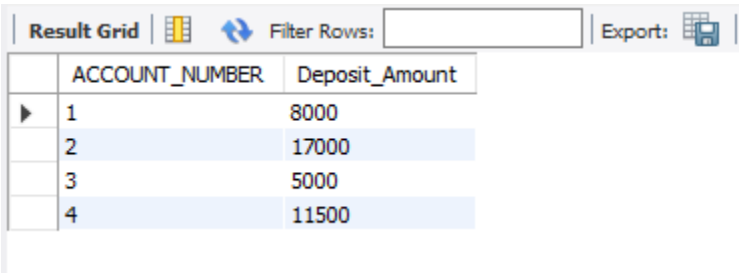
2. **Create a function that takes 2 numbers and returns the maximum**

```
DELIMITER //

CREATE FUNCTION Get_Maximum(a INT, b INT)
RETURNS INT
DETERMINISTIC
BEGIN
        RETURN IF(a > b, a, b);
END //

DELIMITER ;

SELECT Get_Maximum(10, 25);
```



3. **Query to display account number and total deposit**

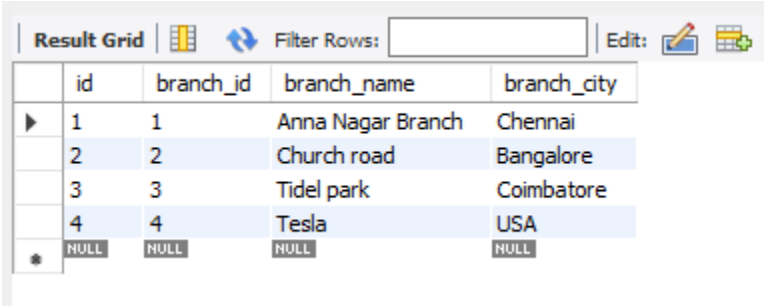
```
SELECT a.ACCOUNT_NUMBER, (a.OPENING_BALANCE
+ IFNULL(SUM(CASE WHEN t.TRANSACTION_TYPE =     'Deposit' THEN
t.TRANSACTION_AMOUNT ELSE 0 END), 0)) AS Deposit_Amount
FROM Account a
LEFT JOIN transaction_details t ON a.ACCOUNT_NUMBER = t.ACCOUNT_NUMBER
GROUP BY a.ACCOUNT_NUMBER
ORDER BY a.ACCOUNT_NUMBER;
```


Result Grid | Filter Rows: | Export:

ACCOUNT_NUMBER	Deposit_Amount
1	8000
2	17000
3	5000
4	11500

4. **Create BRANCH_ MASTER table and insert values**

```
CREATE TABLE branch_master (
id INT AUTO_INCREMENT PRIMARY KEY,
branch_id INT UNIQUE,
branch_name VARCHAR(30),
branch_city VARCHAR(30) );

INSERT INTO branch_master (branch_id, branch_name, branch_city)
VALUES
(1, 'Anna Nagar Branch', 'Chennai'),
(2, 'Church road', 'Bangalore'),
(3, 'Tidel park', 'Coimbatore'),
(4, 'Tesla', 'USA');
```

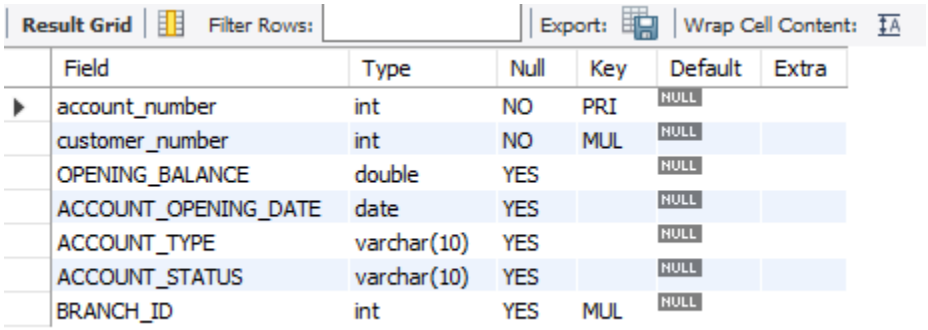

Result Grid | Filter Rows: | Edit:

id	branch_id	branch_name	branch_city
1	1	Anna Nagar Branch	Chennai
2	2	Church road	Bangalore
3	3	Tidel park	Coimbatore
4	4	Tesla	USA
NULL	NULL	NULL	NULL

5. **Add branch_id in Account table and make it a foreign key**

```
ALTER TABLE Account
add column BRANCH_ID int;
```

```
ALTER TABLE Account
ADD CONSTRAINT FK_Account_Branch
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	int	NO	PRI	NULL	
customer_number	int	NO	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	
BRANCH_ID	int	YES	MUL	NULL	