KELOMPOK 1 MBD A2

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- 1. function fn_GetCustomerFullName yang menerima input customer_id dan mengembalikan nama lengkap customer (gabungan first name dan last name).

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SQLQuery_Functions...(MS\Zaidan (70)) ** ×

-- No. 1

-CREATE FUNCTION fn GetCustomerFullName (@customer id CHAR(36))

RETURNS VARCHAR(50)

AS

BEGIN

DECLARE @full_name = CONCAT(first_name, ' ', last_name)

FROM customers

WHERE customer_id = @customer_id;

RETURN @full_name;

END;

SELECT dbo.fn_GetCustomerFullName('079cd6ce-04a8-4c55-8c2b-b93189e9050a') AS full_name;

110 % 

Results @M Messages

full_name

1 Sergeant Maith
```

2. function fn_GetTotalBalanceByCustomer yang menerima input customer_id dan mengembalikan total saldo dari semua akun milik customer tersebut dari tabel accounts.

3. function fn_GetActiveLoanCount yang menghitung berapa jumlah pinjaman dengan status 'active' pada tabel loans.

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SQLQuery_Functions...(MSIVZaidan (70)) $\frac{1}{2} \times \times \text{
-- No. 3}

= CREATE FUNCTION fn_GetActiveLoanCount ()

RETURNS INT

AS

BEGIN

DECLARE @active_loan_count = COUNT(*)

FROM loans

WHERE status = 'active';

RETURN @active_loan_count;

END;

SELECT dbo.fn_GetActiveLoanCount() AS active_loan_count;

110 % $\frac{1}{2}$

## Results $\frac{1}{2}$ Messages

| active_loan_count |
| 1 | 33
```

4. function fn_GetAccountNetFlow yang menerima account_id dan mengembalikan selisih antara total transaksi masuk dan keluar.

```
-- No. 4
CREATE FUNCTION fn GetAccountNetFlow (@account id CHAR(36))
     RETURNS DECIMAL(10,2)
     BEGIN
         DECLARE @net_flow DECIMAL(10,2);
         SELECT @net_flow = ISNULL(SUM(
                  WHEN tt.name IN ('deposit', 'transfer') AND (t.reference_account IS NULL OR t.reference_account = @account_id) THEN t.amount
WHEN tt.name IN ('withdrawal', 'transfer') AND t.account_id = @account_id THEN -t.amount
                  ELSE 0
              END
         ), 0)
          JOIN transaction_types tt ON t.transaction_type_id = tt.transaction_type_id
         WHERE t.account_id = @account_id OR t.reference_account = @account_id;
         RETURN @net_flow;
     SELECT dbo.fn_GetAccountNetFlow('079cd6ce-04a8-4c55-8c2b-b93189e9050a') AS net_flow;
110 % ▼ ◀
net_flow
1 0.00
```

5. function fn_GetCustomerFinancialSummary yang menerima customer_id dan mengembalikan hasil total saldo + total pinjaman.