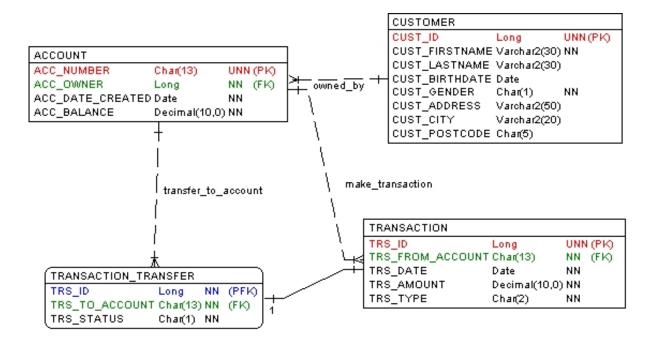
Structured Query Language (SQL)



Note:

UNN: Unique, Not Null
PK: Primary Key
FK: Foreign Key
NN: Not Null

Table description:

1. CUSTOMER: contains all bank customer data
The column CUST GENDER is set to 1 for male and 2 for female.

2. ACCOUNT: contains all customer accounts

The column ACC_OWNER is the Foreign Key which refers to the column CUST_ID of the table CUSTOMER.

3. TRANSACTION: records all transactions.

The column TRS_TYPE contains the transaction type with possible values:

- a. DB: for debit transaction.
- b. CR: for credit transaction.
- c. TF: for money transfer. The column TRS_FROM_ACCOUNT contains the source account.
- 4. TRANSACTION_TRANSFER: contains additional information if the transaction is money transfer.

The column TRS STATUS contains one of the following values:

- a. 0: if transaction is not executed yet
- b. 1: if transaction is executed successfully
- c. -1: if transaction is failed (e.g. the balance of source account (TRS_FROM_ACCOUNT) is not available)

Questions

select

Create SQL queries for the following requirements:

Data dummy insert sql customer : on folder Document -> dummy_customer.sql Data dummy insert sql account : on folder Document -> dummy_account.sql Data dummy insert sql transaction: on folder Document -> dummy_transaction.sql Data dummy insert sql transaction_transfer : on folder Document -> dummy_transaction_transfer.sql

1. Recapitulation of number of accounts owned by every customer. Answer:

```
concat(a.cust firstname, ' ', a.cust lastname) as "customer name",
   a.cust id as "customer id",
   count(b.acc number) as "number of accounts"
from customer a join account b on a.cust id = b.acc owner
group by a cust firstname, a cust lastname, a cust id
order by a.cust firstname;
result run query:

24 KB 7 8 select * from transaction_transfer;
            9 --number 1
           10 □ select
                concat(a.cust_firstname,' ', a.cust_lastname) as "customer name",
a.cust_id as "customer id",
count(b.acc_number) as "number of accounts"
           11
            from customer a join account b on a.cust_id = b.acc_owner group by a.cust_firstname, a.cust_lastname, a.cust_id
            16 order by a.cust_firstname;
            9 - Ln 18 Ch 1
                customer number of name text customer id bigint accounts biging
               1 John Michael
                                     1
                2 Rudi Purnomo
                 Setia Budi
```

2. All transactions created by John Michael sorted by account number and transaction date

Answer:

```
select
  concat(c.cust_firstname,' ', c.cust_lastname) as "customer name",
  c.cust_id as "customer id",
  b.acc_number as "account number",
  a.*
from transaction a
  join account b on a.trs_from_account = b.acc_number
  join customer c on b.acc_owner = c.cust_id
where c.cust_id = 1
order by b.acc_number, a.trs_date desc;
```

result run query:

