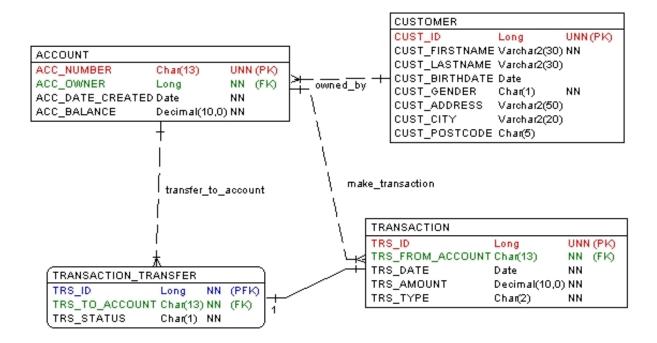
Structured Query Language (SQL)



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

Create SQL queries for the following requirements:

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

Answer:

```
SELECT cs.*, ac.* FROM customer as cs
LEFT JOIN account as ac on ac.acc_owner = cs.cust_id
ORDER BY cs.cust_id
```

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

Answer:

```
SELECT ts.*,tt.trs_status,

CASE

WHEN tt.trs_status = "0" THEN 'Not Prosess Yet'

WHEN tt.trs_status = "1" THEN 'Success'

WHEN tt.trs_status = "-1" THEN 'Failed'

ELSE "

END AS transaction_status

FROM `transaction` as ts

RIGHT JOIN transaction_transfer as tt on tt.trs_id = ts.trs_id

WHERE ts.created_by = "John Michael"
```