DSA305 K-bank promptpay project

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Project: Database for K-bank (Promptpay)

References:

System requirement and Business rules

1. Who or what has to be involved: Customers, Employees

2. What data should be stored:

   - **Account** (AccountID, accountType, balance, promptpayID, cardID)

   - **User Login** (UserID, password)

   - **Customer** (CustomerID, accountID, address, first name, last name, birthday, city, zip code, email, telephone number, userID)

   - **Transaction** (TransactionID, accountID, date, service type, amount, channels)

   - **Promptpay** (PromptpayID, IDtype, promptpaytype)

   - **Card** (CardID, card type, fee)

3. What output would you like to see: customer data, transaction, user login data, balance, account data, promptpay data, promptpay description, card id, card description

- Customer can have many account

- Each account applies many cards (debits, credit)

- Customer who owns current account or saving account can register for Promptpay service

- There are 2 types of Promptpay service, Kbank promptpay and K-biz promptpay (for business)

- Promptpay service use only phone number or citizen id or tax id (for K-biz promptpay) link with your
  account (saving acc/ current acc)

- Each citizen ID number can be linked to only one deposit account.

- Each number can be linked to only one deposit account and maximum 3 numbers can be linked.

- Transaction can be conduct by many channels

- User can register for internet banking through web browser (optional)

user_login

PK,	user_id	number(10,0) not null
	user_password	char(6) not null

customer

PK	cus_id	number(10,0) not null
FK	acc_id	number(10,0) not null
	cus_fname	varchar2(20) not null
	cus_lname	varchar2(20) not null
	cus_dob	date
	cus_address	varchar2(50) not null
	cus_zipcode	number(5,0) not null
	cus_email	varchar2(30)
	cus_phone	number(10,0)

acc_type

PK	acc_type_id	varchar2(10) not null
	acc_type_name	varchar2(30) not null
	acc_min_amount	number(10,0) not null
	acc_interest_rate	number(4,2) not null

transactions

PK	trans_id	varchar2(15) not null
FK	acc_id	number(10,0) not null
	trans_datetime	timestamp(2) not null
FK	serv_id	varchar2(10) not null
	trans_amount	number(10,2) not null
FK	channel_id	varchar2(10) not null

promptpay

PK	prompt_id	number(15) not null
FK	acc_type_id	varchar2(10) not null
	id_type	varchar2(25) not null
FK	prompt_type_id	varchar2(10) not null

accounts

PK	acc_id	number(10,0) not null
FK	acc_type_id	varchar2(10) not null
	acc_balance	number(10,2) not null
FK	prompt_id	number(15,0)

promptpay_type

PK	prompt_type_id	varchar2(10) not null
	prompt_type_name	varchar2(20) not null
	prompt_type_desc	varchar2(150)

services

PK	serv_id	varchar2(10) not null
	serv_name	varchar2(30) not null
	serv_fee	varchar2(10) not null

card

PK	card_id	number(16,0) not null
FK	acc_id	number(10,0) not null
FK	card_type_id	varchar2(10) not null

card_type

PK	card_type_id	varchar2(10) not null
	card_type_name	varchar2(40) not null
	card_desc	varchar2(100)
	card_fee	varchar2(20) not null

channel

PK	channel_id	varchar2(10) not null
	channel_name	varchar2(20) not null
	channel_desc	varchar2(150)