DDL: Money Lending Management System

drop table customer;

drop table account;

drop table transection;

drop table cash;

drop table cheque;

drop table mor_type;

drop table reg_user;

drop table log_user;

drop table invoice;

drop table cust_invoice;

drop table reference;

drop table acc_mor;

CREATE TABLE customer(

       c_id int NOT NULL PRIMARY KEY ,

       c_fname varchar2(20) NOT NULL,

       c_mname varchar2(20) NOT NULL,

       c_lname varchar2(20) NOT NULL,

       address varchar2(50) NOT NULL,

       city varchar2(15) NOT NULL,

       email_id varchar(30),

       mobile_no number(12,0) NOT NULL,

       cphoto_path varchar(30),

       mphoto_path varchar(30)

    );

```sql
CREATE TABLE account(
            acc_id int NOT NULL   PRIMARY KEY ,
            c_id int NOT NULL,
            acc_no number(20) NOT NULL UNIQUE ,
            create_date TIMESTAMP  DEFAULT CURRENT_TIMESTAMP ,
            created_date TIMESTAMP  DEFAULT CURRENT_TIMESTAMP ,
            updated_date TIMESTAMP   DEFAULT CURRENT_TIMESTAMP,
            interest_rate NUMBER(5,2) DEFAULT 36.00,
            debit_limit NUMBER(11,2),
            isactive  NUMBER(1) DEFAULT 1,
             CONSTRAINT acc_cust_id_fk FOREIGN KEY (c_id) REFERENCES customer(c_id) ,
            CONSTRAINT acc_cust_createdate_check CHECK (create_date<=created_date)
        );
create table mor_type(
            mt_id int PRIMARY Key,
            mt_name varchar(30) Not Null
        );


CREATE TABLE transection(
            trans_id int NOT NULL PRIMARY KEY ,
            acc_id int NOT NULL,
            trans_no number(30) NOT NULL UNIQUE,
            trans_date  TIMESTAMP(6) WITH TIME ZONE NOT NULL,
            trans_type char(1) check (trans_type in( 'C','D' )),
            CONSTRAINT acc_id_trans_fk FOREIGN KEY (acc_id) REFERENCES account(acc_id)
        );
```

```sql
CREATE TABLE  cash
        (
                trans_id int NOT NULL,
                chash_amount number(11,2) NOT NULL,
                pay_from  varchar(30) NOT NULL,
                CONSTRAINT cash_trans_id_fk FOREIGN KEY (trans_id)
                REFERENCES transection(trans_id)


        );


CREATE TABLE  cheque
        (
                trans_id int NOT NULL ,
                cheque_no number(10) NOT NULL,
                cheque_amount number(6) NOT NULL,
                pay_from  varchar(50) NOT NULL,
                CONSTRAINT cheque_trans_id_fk FOREIGN KEY (trans_id)
                REFERENCES transection(trans_id)
        );

create table reference
        (
          ref_id int NOT NULL PRIMARY KEY,
          acc_id int NOT NULL,
          reference_place varchar(50) ,
          CONSTRAINT ref_trans_id_fk FOREIGN KEY (acc_id)
           REFERENCES account(acc_id)
        );
```

```sql
create table acc_mor
    (
        acc_mor_id int Primary Key,
        acc_id  int NOT NULL,
        mt_id int Not Null,
        mt_name VARCHAR(30) NOT NULL,
        weight NUMBER(11,2) NOT NULL,
        rate NUMBER(11,2) NOT NULL,
        amount NUMBER(11,2) NOT NULL,
        CONSTRAINT acc_id_mor_fk FOREIGN KEY (acc_id)
        REFERENCES account(acc_id) ,
        CONSTRAINT acc_mt_id_fk FOREIGN KEY (mt_id)
        REFERENCES mor_type(mt_id)
    );

create table reg_user
    (
        reg_id    INT        PRIMARY KEY NOT NULL,
        reg_uname VARCHAR (25) NOT NULL,
        reg_pass  VARCHAR (20) NOT NULL,
        email_id  VARCHAR (25) NOT NULL,
        mobile_no NUMERIC (10) NOT NULL,
        reg_date  TIMESTAMP    NULL,
        role_id   NUMERIC(1)  DEFAULT (0) NOT NULL,
        isvalid  NUMERIC(1)   DEFAULT (0) NOT NULL
    );
```

```sql
create table log_user
    (
        log_id   INT   PRIMARY KEY NOT NULL,
        reg_id   INT    NOT NULL,
        username VARCHAR(20) NOT NULL,
        password VARCHAR(25)  NOT NULL,
        CONSTRAINT log_reg_id_fk FOREIGN KEY (reg_id)
        REFERENCES reg_user(reg_id)
    );


create table cust_invoice
    (
        invoice_id int  PRIMARY KEY NOT NULL,
        c_id int NOT NULL ,
        CONSTRAINT invoice_c_id_fk FOREIGN KEY (c_id)
        REFERENCES customer(c_id)
    );


create table invoice
    (
        i_id int PRIMARY KEY NOT NULL,
        invoice_id int NOT NULL,
        description VARCHAR(30) NOT NULL,
        quantity int NOT NULL,
        rate  NUMBER(11,2) NOT NULL,
        CONSTRAINT invoice_id_fk FOREIGN KEY (invoice_id)
        REFERENCES cust_invoice(invoice_id)
    );
Commit;
```