```
DROP TABLE loan of;
DROP TABLE account of;
DROP TABLE customer;
DROP TABLE loan;
DROP TABLE account;
DROP TABLE bank branch;
DROP TABLE bank;
--Create tables
--BANK TABLE
CREATE TABLE bank
      (bname
                      VARCHAR2(20)
                                         NOT NULL UNIQUE,
      baddr
                      VARCHAR2(30),
      routing code CHAR(5)
                                         PRIMARY KEY
          CONSTRAINT rc num len CHECK (REGEXP LIKE (routing code,
'[[:digit:]]{5}'))
                   );
--Insert bank values
INSERT INTO bank VALUES ( 'Eastpac',
                                           '32 Euston Road',
'57558');
INSERT INTO bank VALUES ( 'Bank of Bankerton', '35 Regent Street',
'00128');
INSERT INTO bank VALUES ( 'Peoples Bank', '1004 Park Lane',
'99147');
COMMIT;
--BANK BRANCH TABLE
CREATE TABLE bank branch
      (branch name
                          VARCHAR2(20) NOT NULL,
      branch addr
                          VARCHAR(30),
      branchno
                                              NOT NULL UNIQUE
                          CHAR(2)
          --check to make sure branch number is a 2 digit number
          CONSTRAINT br num len CHECK (REGEXP LIKE(branchno,
'[[:digit:]]{2}')),
      routing code
                   CHAR(5) REFERENCES bank(routing code),
          PRIMARY KEY (branchno, routing_code) );
-- Insert branch values
INSERT INTO bank_branch VALUES ('Eastpac HQ', '32 Euston Road',
'78', '57558');
INSERT INTO bank branch VALUES ('Fleet Branch', '34 Regent St',
'01', '00128');
INSERT INTO bank_branch VALUES ('Hobo Branch', '21 Old Kent Road',
'03', '00128');
INSERT INTO bank_branch VALUES ('Trafalgar Branch', '122 Trafalgar Square',
'02', '00128');
INSERT INTO bank branch VALUES ('Trafalgar Branch', '123 Trafalgar Square',
'26', '99147');
INSERT INTO bank_branch VALUES ('Railroad Branch', '8 Park Lane', '27',
'99147');
COMMIT;
--CUSTOMER TABLE
CREATE TABLE customer
```

```
(ird
                     CHAR(9)
                                      PRIMARY KEY
           --check that ird is an 8 or 9 digit number
          CONSTRAINT ird num len CHECK (REGEXP LIKE(ird, '[[:digit:]]{8,9}')),
                                       NOT NULL,
        cname
                     VARCHAR(20)
        caddr
                     VARCHAR(30),
       phone
                     CHAR(16)
           --check that phone is a viable phone number
          CONSTRAINT ph num check CHECK (REGEXP LIKE(phone,
'+?([[:digit:]]){1,16}'))
-- Insert customer values
INSERT INTO customer VALUES('36328378', 'Scott Terrier', '34 Malborough St',
NULL);
INSERT INTO customer VALUES ('32352342', 'Meghan Terrier', '34 Malborough St',
'027 509 5789');
INSERT INTO customer VALUES('1111111112', 'Jane Thimble',
                                                           '5 Park Lane',
'278 5606');
INSERT INTO customer VALUES('900980987', 'Timmy Shoe',
                                                            '12 Whitechapel
Rd', '+021 883 1555');
INSERT INTO customer VALUES('27958588', 'Neil Barrow',
                                                           '45 Regent St',
'127 123 5432');
INSERT INTO customer VALUES('33300583', 'Boris Iron', '11 Coventry
Street', '+64 21 3081094');
INSERT INTO customer VALUES('123456781', 'Battleship Jones', '123 Park Lane',
INSERT INTO customer VALUES('98723555', 'Otto Mobyl',
                                                           '27 Malborough St',
'378 3789');
INSERT INTO customer VALUES('454540454', 'Patty Tops',
                                                           '86 Vine Street',
'+65 335 1097');
INSERT INTO customer VALUES('23087920', 'Guy Monopoly', '1 Park Lane',
'+54 27 111 1111');
COMMIT;
--ACCOUNT TABLE
CREATE TABLE account
                          CHAR(5)
      (acctno
                                          PRIMARY KEY,
            CONSTRAINT acct_num_check CHECK (REGEXP_LIKE(acctno,
'[[:digit:]]{5}')),
                          CHAR(10)
                                           NOT NULL
            CONSTRAINT atype check CHECK (atype IN ('savings', 'checking',
'investment')),
      balance
                          NUMBER(18,2)
                                          NOT NULL,
      branchno
                                              REFERENCES bank branch(branchno),
                          CHAR(2),
      routing code
                          CHAR(5),
                                       --
                                              REFERENCES
bank_branch(b_routing_code)
            CONSTRAINT account fkey FOREIGN KEY (branchno, routing code)
             REFERENCES bank branch(branchno, routing code)
      );
--Insert account values (acctno, atype, balance, branch num, rcode
--Eastpac(57558) accounts
INSERT INTO account VALUES ( '11111', 'investment', 450123.00, '78',
'57558');
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```
INSERT INTO account VALUES ( '11112', 'checking', 101.54, '78',
'57558');
--Bankerton(00128) accounts
INSERT INTO account VALUES (
                              '04569', 'savings',
                                                     500.00,
                                                                 '01',
'00128');
INSERT INTO account VALUES (
                              '65445', 'checking',
                                                     2000.02,
                                                                    '03',
'00128');
INSERT INTO account VALUES (
                              '22053', 'checking',
                                                     27.59,
                                                                  '02',
'00128');
INSERT INTO account VALUES ( '22054', 'savings',
                                                     1000.00,
                                                                  '02',
'00128'):
INSERT INTO account VALUES ( '09545', 'savings',
                                                      871.99,
                                                                  '01',
'00128');
-- Peoples Bank(99147) accounts
                              '10840', 'checking',
INSERT INTO account VALUES (
                                                     217.13,
                                                                  '27',
'99147');
                              '58588', 'savings',
                                                                 '27',
INSERT INTO account VALUES (
                                                     475.08,
'99147');
                                                     3098.12,
INSERT INTO account VALUES ( '23346', 'savings',
                                                                  '26',
'99147');
INSERT INTO account VALUES ( '23347', 'investment', 10200.00,
                                                                  '26',
'99147');
INSERT INTO account VALUES ( '90562', 'savings', 950.4,
                                                                  '26',
'99147');
COMMIT;
--LOAN TABLE
CREATE TABLE loan
       (loanno
                          CHAR(3)
                                          PRIMARY KEY,
           CONSTRAINT loan num check CHECK (REGEXP LIKE(loanno,
'[[:digit:]]{3}')),
                          CHAR(10)
       ltype
           CONSTRAINT ltype_check CHECK (ltype IN ('car', 'home', 'personal')),
       amount
                          NUMBER(18,2),
       contract date
                          DATE
                                          NOT NULL,
                                              REFERENCES bank branch(branchno),
                          CHAR(2),--
      branchno
                    CHAR(5),--
       routing code
                                         REFERENCES bank branch(b routing code)
           CONSTRAINT loan fkey FOREIGN KEY (branchno, routing code)
            REFERENCES bank branch(branchno, routing code)
       );
--Insert loans (number, atype, amount, date, branch, rcode)
--Timmy Shoe savings loan
INSERT INTO loan VALUES('002', 'personal', 400, TO DATE('18-08-2015', 'dd-mm-
yyyy'), '78', '57558');
--Battleship Jones investment loan
INSERT INTO loan VALUES ('354', 'home', 10000.00, TO DATE('05-03-2001', 'dd-mm-
yyyy'), '26', '99147');
--Scott/Meghan joint loan
INSERT INTO loan VALUES ('042', 'car', 2500.00, TO DATE('12-12-2010', 'dd-mm-
yyyy'), '01', '00128');
```

```
--Boris loan
INSERT INTO loan VALUES ('012', 'personal', 2000.00, TO DATE('03-02-2009', 'dd-
mm-yyyy'), '03', '00128');
--ACCOUNT OF TABLE
CREATE TABLE account of
       (acctno
                      CHAR(5)
                                     REFERENCES account (acctno),
       ird
                      CHAR(9)
                                     REFERENCES customer(ird),
       PRIMARY KEY (acctno, ird)
-- Insert account-customer relationships
INSERT INTO account_of VALUES ('11111', '23087920');
INSERT INTO account_of VALUES ('11112', '23087920');
INSERT INTO account_of VALUES ('04569', '36328378');
INSERT INTO account_of VALUES ('04569', '32352342');
INSERT INTO account_of VALUES ('65445', '33300583');
INSERT INTO account_of VALUES ('22053', '98723555');
INSERT INTO account_of VALUES ('90562', '1111111112');
INSERT INTO account_of VALUES ('23346', '123456781');
INSERT INTO account of VALUES ('23347', '123456781');
INSERT INTO account of VALUES ('22054', '27958588');
INSERT INTO account_of VALUES ('09545', '454540454');
INSERT INTO account_of VALUES ('10840', '900980987');
INSERT INTO account of VALUES ('58588', '900980987');
COMMIT;
--LOAN OF TABLE
CREATE TABLE loan of
       (loanno
                     CHAR(3)
                                     REFERENCES loan(loanno),
                    CHAR(9)
                                    REFERENCES customer(ird),
       PRIMARY KEY (loanno, ird)
       );
--Timmy Shoe
INSERT INTO loan of VALUES ('002', '900980987');
--Battleship Jones
INSERT INTO loan of VALUES ('354', '123456781');
--Scott joint
INSERT INTO loan of VALUES ('042', '36328378');
--Meghan joint
INSERT INTO loan of VALUES ('042', '32352342');
INSERT INTO loan_of VALUES ('012', '33300583');
```