Banking Management System

**Tables**

Creation

create table account

(account\_number varchar(15) not null unique,

branch\_name varchar(15) not null,

balance int not null,

primary key(account\_number));

create table branch

(branch\_name varchar(15) not null unique,

branch\_city varchar(15) not null,

assets int not null,

primary key(branch\_name));

create table customer

(customer\_name varchar(15) not null unique,

customer\_street varchar(12) not null,

customer\_city varchar(15) not null,

primary key(customer\_name));

create table loan

(loan\_number varchar(15) not null unique,

branch\_name varchar(15) not null,

amount int not null,

primary key(loan\_number));

create table depositor

(customer\_name varchar(15) not null,

account\_number varchar(15) not null,

primary key(customer\_name, account\_number),

foreign key(account\_number) references account(account\_number),

foreign key(customer\_name) references customer(customer\_name));

create table borrower

(customer\_name varchar(15) not null,

loan\_number varchar(15) not null,

primary key(customer\_name, loan\_number),

foreign key(customer\_name) references customer(customer\_name),

foreign key(loan\_number) references loan(loan\_number));

Insertion

insert into customer values ('Jones', 'Main', 'Harrison');

insert into customer values ('Smith', 'Main', 'Rye');

insert into customer values ('Hayes', 'Main', 'Harrison');

insert into customer values ('Curry', 'North', 'Rye');

insert into customer values ('Lindsay', 'Park', 'Pittsfield');

insert into customer values ('Turner', 'Putnam', 'Stamford');

insert into customer values ('Williams', 'Nassau', 'Princeton');

insert into customer values ('Adams', 'Spring', 'Pittsfield');

insert into customer values ('Johnson', 'Alma', 'Palo Alto');

insert into customer values ('Glenn', 'Sand Hill', 'Woodside');

insert into customer values ('Brooks', 'Senator', 'Brooklyn');

insert into customer values ('Green', 'Walnut', 'Stamford');

insert into customer values ('Jackson', 'University', 'Salt Lake');

insert into customer values ('Majeris', 'First', 'Rye');

insert into customer values ('McBride', 'Safety', 'Rye');

insert into branch values ('Downtown', 'Brooklyn', 900000);

insert into branch values ('Redwood', 'Palo Alto', 2100000);

insert into branch values ('Perryridge', 'Horseneck', 1700000);

insert into branch values ('Mianus', 'Horseneck', 400200);

insert into branch values ('Round Hill', 'Horseneck', 8000000);

insert into branch values ('Pownal', 'Bennington', 400000);

insert into branch values ('North Town', 'Rye', 3700000);

insert into branch values ('Brighton', 'Brooklyn', 7000000);

insert into branch values ('Central', 'Rye', 400280);

insert into account values ('A-101', 'Downtown', 500);

insert into account values ('A-215', 'Mianus', 700);

insert into account values ('A-102', 'Perryridge', 400);

insert into account values ('A-305', 'Round Hill', 350);

insert into account values ('A-201', 'Perryridge', 900);

insert into account values ('A-222', 'Redwood', 700);

insert into account values ('A-217', 'Brighton', 750);

insert into account values ('A-333', 'Central', 850);

insert into account values ('A-444', 'North Town', 625);

insert into depositor values ('Johnson','A-101');

insert into depositor values ('Smith', 'A-215');

insert into depositor values ('Hayes', 'A-102');

insert into depositor values ('Hayes', 'A-101');

insert into depositor values ('Turner', 'A-305');

insert into depositor values ('Johnson','A-201');

insert into depositor values ('Jones', 'A-217');

insert into depositor values ('Lindsay','A-222');

insert into depositor values ('Majeris','A-333');

insert into depositor values ('Smith', 'A-444');

insert into loan values ('L-17', 'Downtown', 1000);

insert into loan values ('L-23', 'Redwood', 2000);

insert into loan values ('L-15', 'Perryridge', 1500);

insert into loan values ('L-14', 'Downtown', 1500);

insert into loan values ('L-93', 'Mianus', 500);

insert into loan values ('L-11', 'Round Hill', 900);

insert into loan values ('L-16', 'Perryridge', 1300);

insert into loan values ('L-20', 'North Town', 7500);

insert into loan values ('L-21', 'Central', 570);

insert into borrower values ('Jones', 'L-17');

insert into borrower values ('Smith', 'L-23');

insert into borrower values ('Hayes', 'L-15');

insert into borrower values ('Jackson', 'L-14');

insert into borrower values ('Curry', 'L-93');

insert into borrower values ('Smith', 'L-11');

insert into borrower values ('Williams','L-17');

insert into borrower values ('Adams', 'L-16');

insert into borrower values ('McBride', 'L-20');

insert into borrower values ('Smith', 'L-21');

**VIEW**

CREATE

VIEW my\_report AS

select d.customer\_name,branch\_city, b.branch\_name, a.account\_number, balance, bb.loan\_number, l.amount from branch b

left join account a

on b.branch\_name = a.branch\_name

left join depositor d

on a.account\_number = d.account\_number

left join borrower bb

on d.customer\_name = bb.customer\_name

left join loan l

on bb.loan\_number = l.loan\_number

order by d.customer\_name;