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Consider the following database for a banking enterprise.
BRANCH (branch-name: String, branch-city: String, assets: real)
ACCOUNTS (accno: int, branch-name: String, balance: real)
DEPOSITOR (customer-name: String, accno:int)
CUSTOMER( customer-name: String, customer-street: String, customer-city: String)
LOAN (loan-number: int, branch-name: String, amount: real)
BORROWER (customer-name: String, loan-number: int)
create database Banking enterprise;
i. Create the above tables by properly specifying the primary keys and the foreign keys.
create table branch(
  branch name varchar(30) primary key,
  branch city varchar(30),
  assets real);
create table accounts(
   accno int primary key,
   branch_name varchar(30),
   balance real.
   foreign key (branch_name) references branch(branch_name) on delete cascade on update cascade);
create table customer(
   customer name varchar(30) primary key,
   customer street varchar(20),
   customer city varchar(20));
create table depositor(
   customer name varchar(30),
   accno int.
   primary key(customer name, accno),
   foreign key (accno) references accounts(accno) on delete cascade on update cascade,
   foreign key (customer_name) references customer(customer_name) on delete cascade on update
cascade):
create table loan(
  loan number int primary key,
  branch_name varchar(30),
  amount real.
  foreign key (branch name) references branch(branch name)
);
create table borrower (
  customer name varchar(30),
  loan number int,
  primary key(customer name, loan number),
  foreign key (customer name) references customer (customer name) on delete cascade on update cascade,
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foreign key (loan number) references loan(loan number) on delete cascade on update cascade);
ii. Enter at least five tuples for each relation.
insert into branch(branch name, branch city, assets) values
('A', 'Bangalore', 190000),
('B', 'Bangalore', 200000),
('C', 'Delhi', 235344),
('D','Chennai',1050560),
('E','Chennai',678909);
insert into accounts(accno,branch_name,balance) VALUES
(1001,'A',10000),
(1002, 'B', 5000),
(1003,'C',7500),
(1004, 'D', 50000),
(1005, 'D', 75000),
(1006, 'E', 560);
(1007, "B", 500),
(1008, "B", 1500);
insert into customer(customer_name,customer_street,customer_city) VALUES
("Ravi", "Dasarahalli", "Bangalore"),
("Shyam", "Indiranagar", "Delhi"),
("Seema", "Vasantnagar", "Chennai"),
("Arpita", "Church Street", "Bangalore"),
("Vinay","MG Road","Chennai");
insert into depositor(customer name,accno) VALUES
("Ravi", 1001),
("Ravi", 1002),
("Shyam", 1003),
("Seema", 1004),
("Seema", 1005),
("Arpita", 1006),
("Vinay", 1007),
("Vinay",1008);
insert into loan(loan_number,branch_name,amount) VALUES
(001,'A',10000),
(002, 'B', 25000),
(003, 'B', 250000),
(004,'C',5000),
(005, 'E', 90000),
insert into borrower(customer name, loan number) VALUES
("Arpita",001),
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("Ravi",002),

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("Arpita",003),
("Shyam",004),
("Vinay",005),
;
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iii. Find all the customers who have at least two accounts at the Main branch.

select customer_name from depositor join accounts on depositor.accno = accounts.accno where accounts.branch_name = "D" group by depositor.customer_name having count(depositor.customer_name) >=2;

<pre>select customer_name from depositor join accounts on depositor.accno = accounts.accno where accounts.branch_name = "D" group by depositor.customer_name having count(depositor.customer_name) >=2</pre>
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
☐ Show all Number of rows: 25 ✓ Filter rows: Search this table
+ Options
customer_name
Seema

iv. Find all the customers who have an account at all the branches located in a specific city.

select customer_name from depositor
join accounts on accounts.accno = depositor.accno
join branch on branch.branch_name = accounts.branch_name
where branch.branch_city = "Bangalore"
GROUP BY depositor.customer_name
having count(DISTINCT branch.branch_name) = (SELECT COUNT(branch_name)
FROM branch
WHERE branch_city = 'Bangalore');



v. Demonstrate how you delete all account tuples at every branch located in a specific city. delete from accounts where branch_name in (select branch_name from branch where branch_city="Delhi");