## Lab 2

## Question:

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, customer-street: String, customer-city: String)

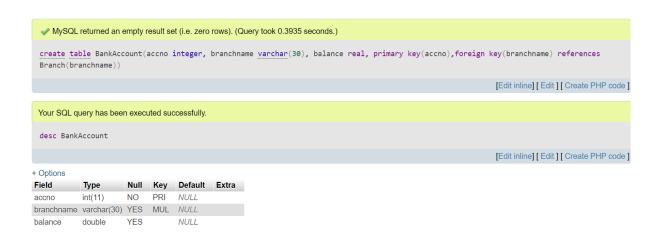
LOAN (loan-number: int, branch-name: String, amount: real)

BORROWER (customer-name: String, loan-number: int)

## **Queries:**

i. Create the above tables by properly specifying the primary keys and the foreign keys.





✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3600 seconds.)

 $\underline{\text{create table}} \ \ \text{BankCustomer(customername} \ \underline{\text{varchar}(30)}, \\ \text{customerstreet} \ \underline{\text{varchar}(30)}, \\ \text{customercity} \ \underline{\text{varchar}(30)}, \\ \text{primary key(customername)})$ 

[Edit inline] [ Edit ] [ Create PHP code ]

Your SQL query has been executed successfully.

desc BankCustomer

[Edit inline] [ Edit ] [ Create PHP code ]

+ Options

Field	Туре	Null	Key	Default	Extra
customername	varchar(30)	NO	PRI	NULL	
customerstreet	varchar(30)	YES		NULL	
customercity	varchar(30)	YES		NULL	

MySQL returned an empty result set (i.e. zero rows). (Query took 0.3067 seconds.)

[Edit inline] [ Edit ] [ Create PHP code ]

Your SQL query has been executed successfully.

desc Depositor

[Edit inline] [ Edit ] [ Create PHP code ]

+ Options

Field	Туре	Null	Key	Default	Extra
customername	varchar(30)	NO	PRI	NULL	
accno	int(11)	NO	PRI	NULL	

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3609 seconds.)

 $\frac{\text{create } \underline{\text{table}} \text{ loan}(\text{loannumber integer,branchname } \underline{\text{varchar}}(30), \text{amount real, primary key}(\text{loannumber}), \text{ foreign key}(\text{branchname}) \text{ references } \underline{\text{branch}}(\text{branchname}))$ 

[Edit inline] [ Edit ] [ Create PHP code ]

Your SQL query has been executed successfully.

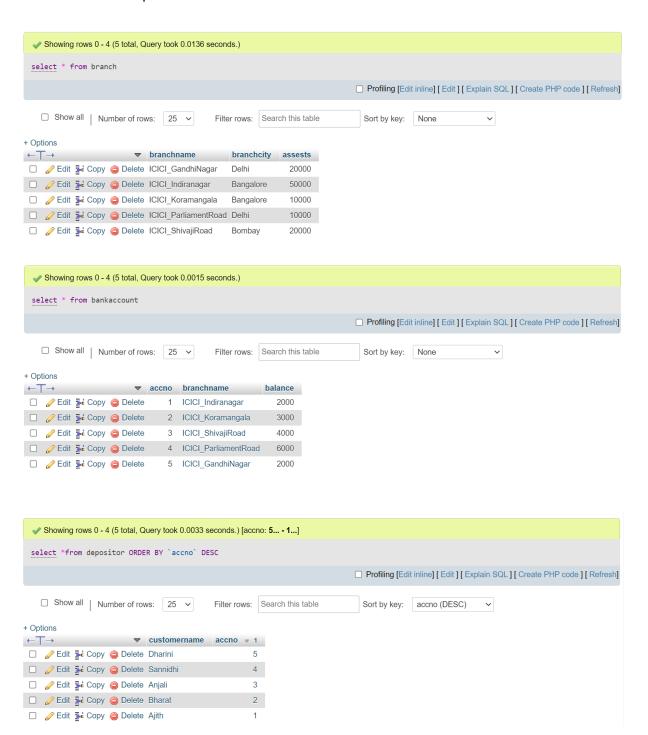
desc loan

[Edit inline] [ Edit ] [ Create PHP code ]

+ Options

Field	Туре	Null	Key	Default	Extra
loannumber	int(11)	NO	PRI	NULL	
branchname	varchar(30)	YES	MUL	NULL	
amount	double	YES		NULL	

ii. Enter at least five tuples for each relation.



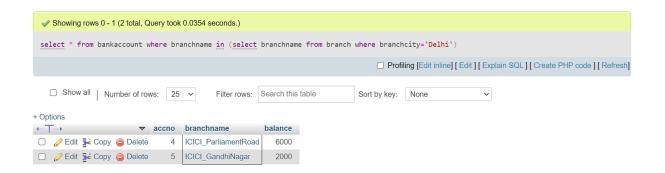




iii. Find all the customers who have at least two accounts at the Main branch.



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



v. Demonstrate how you delete all account tuples at every branch located in a specific city.

√ 2 rows affected. (Query took 0.1204 seconds.)

delete from bankaccount where branchname in (select branchname from branch where branchcity='Delhi')

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