

Course Code: CSE302

Project Report

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Story: If a customer wants to create a bank account, he/she needs to provide basic information like name, address details, phone number date of birth and age after that the bank will provide a customer id all this data will be stored in Customer table. There will be Employee table where we will store employee id, name, salary, address, blood group, phone number, email, date of birth, age. Then there will a table named Branch where will be branch name, address, and its assets. Also, we will have a table name Account where we will have account name from account table, customer id from customer table, branch name and account balance. There will be a Depositor table which will contain customer id and account number. If a customer wants to take loan there will be a table named Loan where we will store the loan number, branch name and amount. And after that there will be a Borrower which will hold borrower number, customer id from customer table and the loan number from loan table. And lastly there will be a Customer_Employee table which will hold the customer id from customer table and employee id from employee table just to see which employee handling which customer.

Actual Data Objects:

Customer: <u>CustomerID</u>, first_name, last_name, address, phone_Number, email, date_of_birth, age.

Branch: <u>name</u>, address, asset.

Loan: <u>loan_Number</u>, branch_name, amount.

Borrower: Borrower_No, customer_id, Loan_Number.

Account: <u>acc_Number</u>, customer_id, Branch_Name,Balance.

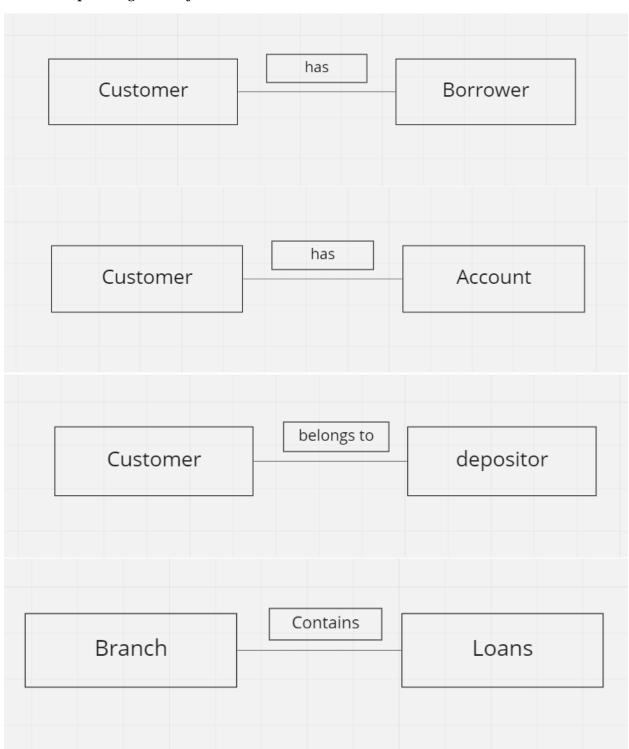
Depositor: customer_id, acc_Number.

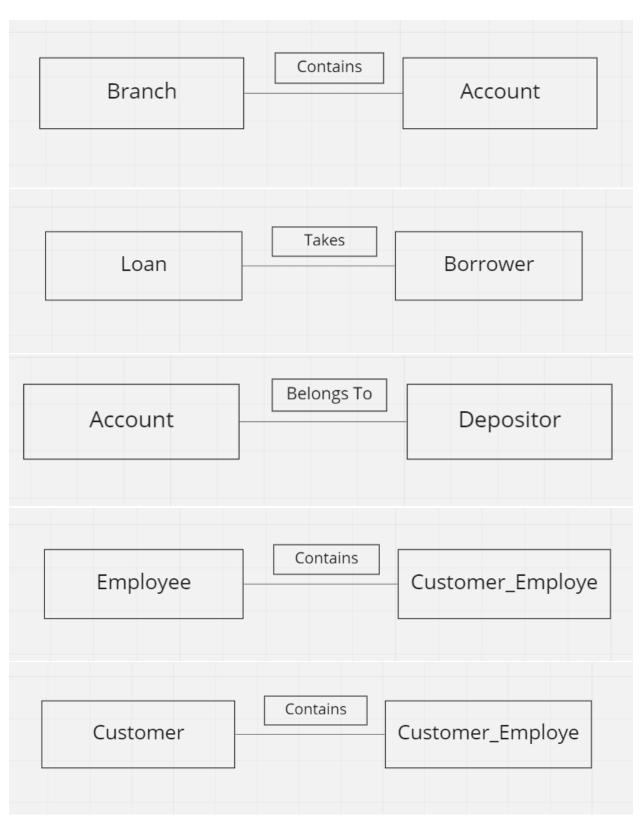
Employee: employee Id, first_name, last_name, salary, address, blood_group, phone_number,

email, date_of_birth, age.

Customer_Employee: Customer_id, Employee_Id.

Relationship among data objects:





Schema Table:

Key: AI: Auto Incremented ID

Table 1: Schema table for Customer

	Customer	
Attributes	Types	Size
customer_id	number	Al
first_name	varchar	250
last_name	varchar	250
address	varchar	250
Phone_Number	number	11
email	varchar	250
Date_of_birth	Date-time	
age	number	3

Table 2: Schema table for Branch

Branch		
Attributes	Types	Size
name	varchar	250
address	varchar	250
asset	number	Al

Table 3: Schema table for Loan

Loan		
Attributes	Types	Size
loan_Number	number	6
branch_name	varchar	250
amount	number	Al

Table 4: Schema table for Borrower

Borrower		
Attributes	Types	Size
Borrower_No	number	Al
customer_id	number	Al
loan_Number	number	6

Table 5: Schema table for Account

	Account	
Attributes	Types	Size
customer_id	number	Al
acc_number	number	Al
Branch_Name	varchar	250
balance	number	Al

Table 6: Schema table for Depositor

Depositor		
Attributes	Types	Size
customer_id	number	Al
acc_Number	number	Al

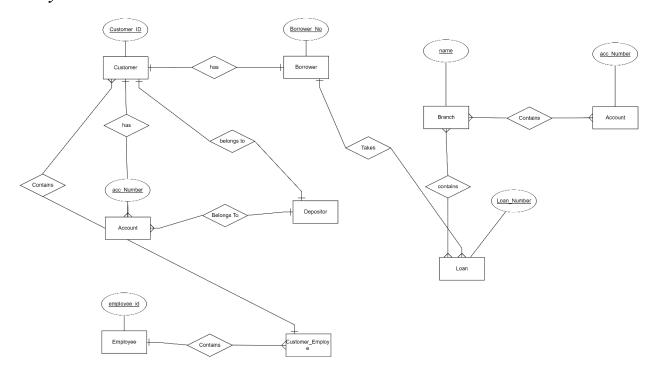
Table 7: Schema table for Employee

	Employee	
Attributes	Types	Size
employee_id	number	Al
first_name	varchar	250
last_name	varchar	250
salary	number	10
address	varchar	250
blood_group	varchar	250
phone_Number	number	11
email	varchar	250
Date_of_birth	Date-time	
age	number	3

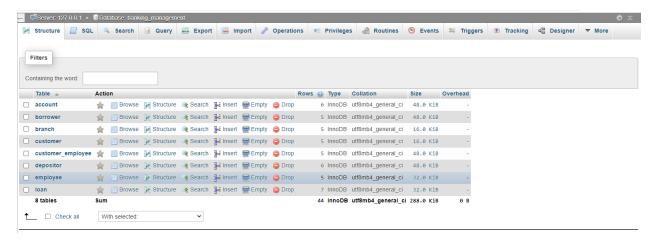
Table 8: Schema table for Customer_Employee

Depositor		
Attributes	Types	Size
customer_id	number	Al
Employee_ID	number	Al

Entity Relation:



Creating the database Banking_manegement and creating the tables from given ER diagram:



Adding the attributes in table **account** which have four attributes, one primary key and two foreign key:

Primary key(acc_number),foreign key(Customer_id,branch_Name)



Adding the attributes in table **borrower** which have three attributes one primary key and two foreign key: Primary key(Borrower_No), Foreign Key(Customer_id,loan_Number)



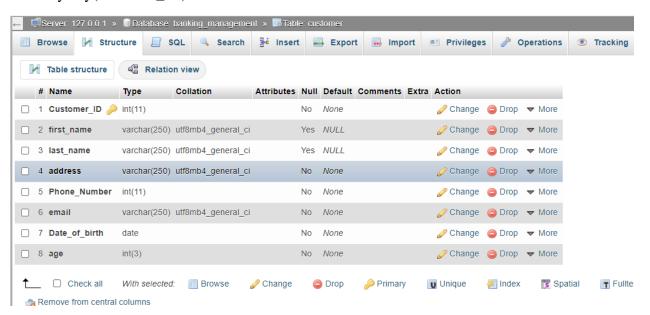
Adding the attributes in table **branch** which have three attributes one primary key:

Primary key(name)



Adding the attributes in table **customer** which have eight attributes one primary key:

Primary key(customer_ID)



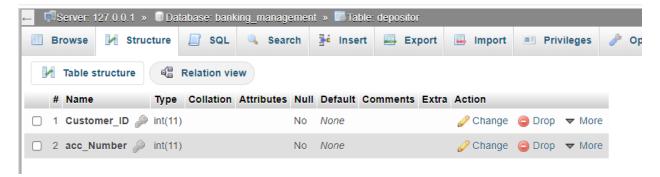
Adding the attributes in table **customer_employee** which have two attributes and both are foreign key:

Foreign key(customer_ID,employee_id)



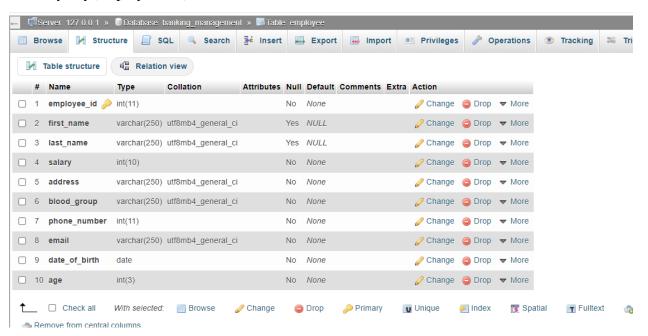
Adding the attributes in table **depositor** which have two attributes and both are foreign key:

Foreign key(customer_ID,acc_Number)



Adding the attributes in table **employee** which have ten attributes one primary key:

Primary key(employee_ID)

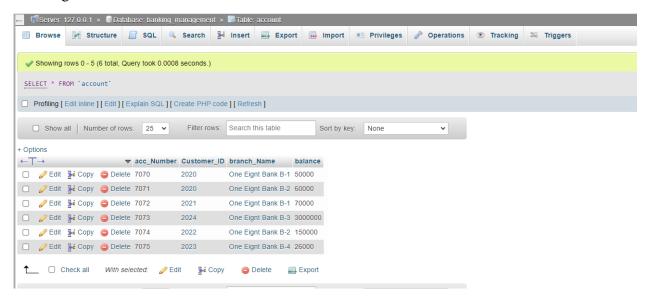


Adding the attributes in table **loan** which have three attributes one primary key and one foreign key:

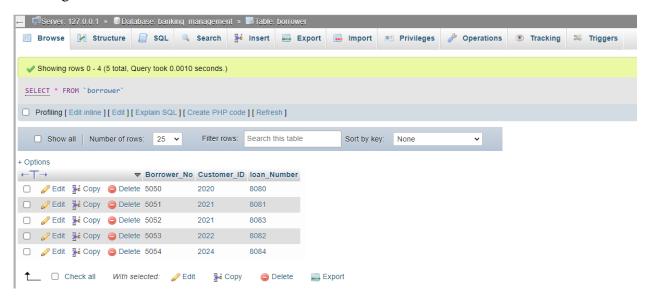
Primary key(loan_Number), Foreign key(branch_name)



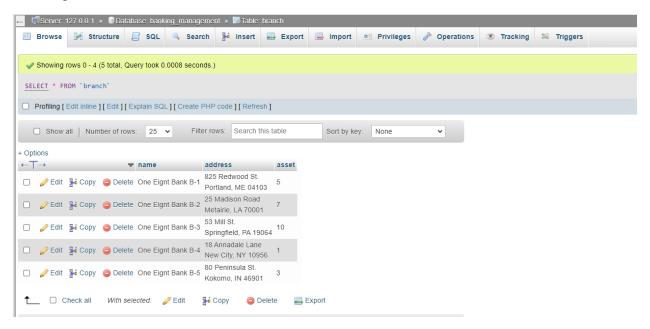
Inserting the values into table **account**:



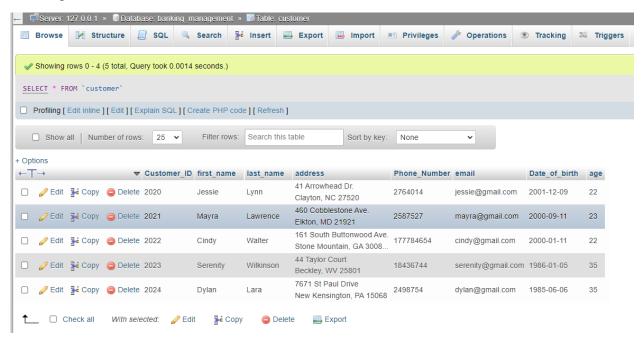
Inserting the values into table **borrower**:



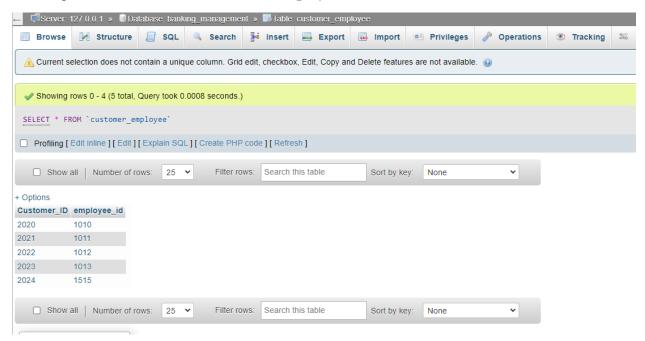
Inserting the values into table **branch**:



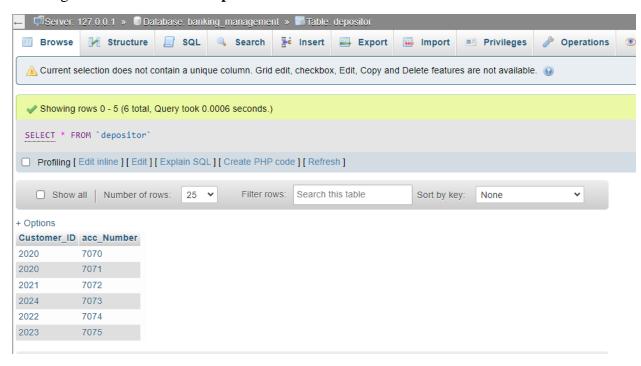
Inserting the values into table **customer**:



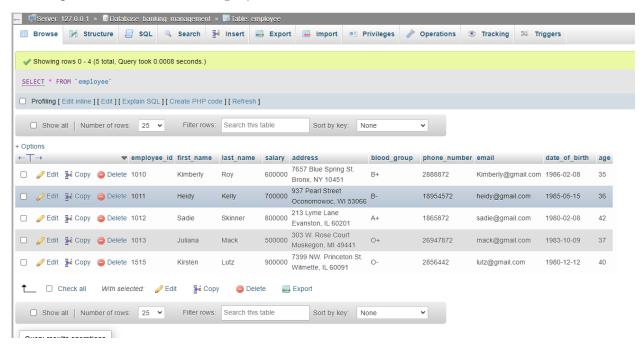
Inserting the values into table **customer_employee**:



Inserting the values into table **depositor**:



Inserting the values into table employee:



Inserting the values into table **loan**:

