

Nathan Hancock

CS 4332

**Project 7 :**

**(a) Formation of Preliminary Database**

Begin the formation of data base for your project by creating preliminary tables using normalization. These should be derived from your business requirements in Project 6 such as input forms, and/or output reports.

**(Display preliminary tables here)**

<b>Business Member Info</b>	Business Member ID	Business Name	Address
	Tax ID	Net Worth	Credit Limit

<b>Account Member Info</b>	Account ID	Name	Address
	Social Security Number	Savings	Checking

<b>Home Loan</b>	Home Loan ID	Home Value	Loan Amount
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<b>Business Loan</b>	Business Loan ID	Loan Amount
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<b>Personal Loan</b>	Personal Loan ID	Loan Amount
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## (b) Creating Normalized tables and ER diagram:

The structural part of the project:

To create final version of normalized tables and to design the entity relationship diagram (E/R) using strict normalization methods and specifying all the important keys (Primary, and Foreign, Key) involved in the project. The E/R diagram must be in the crow feet notation. Many to many relationship must be decomposed. One to one relationship should be combined if possible or should be replaced by UML super-type and sub-type diagram. (For UML, See Gaddi's C++ book, Chapter 13, pages 785-788 edition 8.)

(Display finalized normalized tables and E/R diagram which will be used for base relations in your database.)

<b>Business Member Info</b>	PK Business Member ID	Business Name	Address	Business Type
	Tax ID	Formation Date	Net Worth	Credit Limit

<b>Account Member Info</b>	PK Account ID	FK Business Member ID	Name	Address
	Social Security	Savings	Checking	Routing Number
	Credit Score			

<b>Personal Loan</b>	PK Personal Loan ID	FK Account ID	Loan Amount
	Interest	Collateral	

<b>Home Loan</b>	PK Home Loan ID	FK Account ID	Home Value	Loan Amount
	Collateral	Interest		

<b>Business Loan</b>	PK Business Loan ID	FK Business Member ID	Loan Amount
	Interest	Collateral	

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