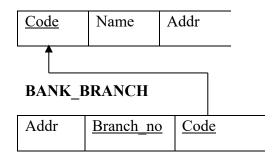
Initial Translation

BANK



ACCOUNT

Acct_no	Balance	Type

LOAN

Loan_no	Amount	Type

CUSTOMER

Phone	Ssn	Name	Addr

The minimal storage relationship is italicized

BRANCHES options

Because BANK_BRANCH only has a weak key the Branches relationship is implicity created when we give the BANK_BRANCH table a Code attribute as a Foreign Key Reference (FKR) to BANK.Code

ACCTS options

- 1) Add Acct_no attribute to BANK_BRANCH schema as FKR to ACCOUNT.Acct_no
- 2) Add Branch_no and Code attributes to ACCOUNT schema as FKR to BANK BRANCH.Branch no and BANK BRANCH.Code
- 3) Create a new table, ACCCTS, that holds FKRs to the keys of the BANK_BRANCH table and the ACCOUNT table

LOANS options

- 1) Add Loan no attribute to BANK BRANCH schema as FKR to LOAN.Loan no
- 2) Add Branch_no and Code attributes to LOAN schema as FKR to BANK BRANCH.Branch no and BANK BRANCH.Code
- 3) Create a new table, LOANS, that holds FKRs to the keys of the BANK_BRANCH table and the LOAN table

A C options

- 1) Add Ssn attribute to ACCOUNT schema as FKR to CUSTOMER.Ssn
- 2) Add Acct no attribute to CUSTOMER schema as FKR to ACCOUNT.Acct no
- 3) Create a new table, A_C, that holds FKRs to the key of the ACCOUNT table and the CUSTOMER table.

L C options

- 1) Add Ssn attribute to LOAN schema as FKR to CUSTOMER.Ssn
- 2) Add Loan no attribute to CUSTOMER schema as FKR to LOAN.Loan no
- 3) Create a new table, L_C, that holds FKRs to the key of the LOAN table and the CUSTOMER table.

Minimal Storage Implementation

