2.12

1. 适合的主码

branch: branch\_name

customer: ID

loan: loan\_number

borrower: ID, loan\_number

account: account\_number

depositor: ID, account\_number

1. 适当的外码

borrower中的loan\_number引用于loan中的loan\_number

depositor 中的account\_number引用于account中的account\_number

loan 中的 branch\_name 引用于branch中的branch\_name

account 中的 branch\_name 引用于branch中的branch\_name

borrower 中的ID引用于customer中的ID

depositor 中的ID引用于customer中的ID

2.15

1. Πloan\_number(σaccount >10000(loan))
2. ΠID(σbalance > 6000∧depositor.account\_number = account.account\_number(depositor × account))
3. ΠID(σbalance > 6000∧depositor.account\_number = account.account\_number∧branch\_name = ‘Uptown’(depositor × account))