Intro to Database HW1

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Chapter1 Intro

Exercise 1.10:

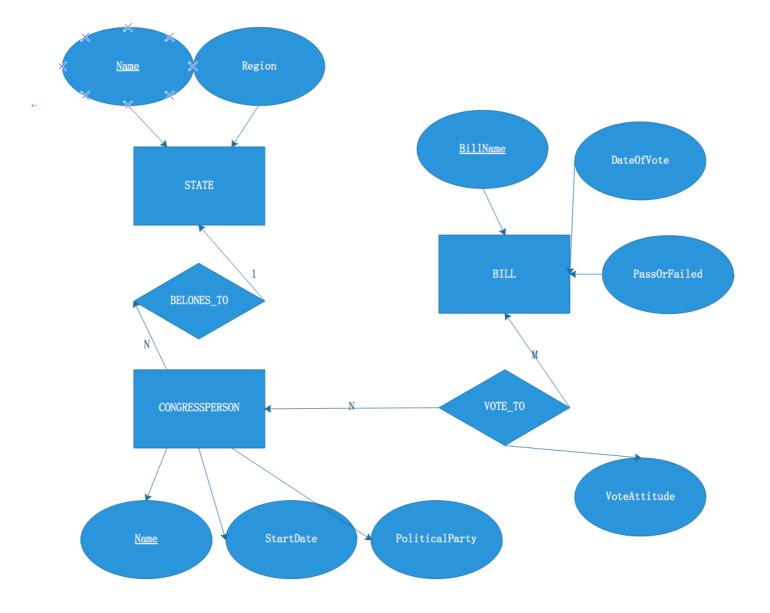
relation ships

- 1. STUDENT can TAKE COURSE, TAKE should be a M to N relationship
- 2. COURSE BELONE_TO SECTION, BELONE_TO should be a 1 to N relationship
- 3. STUDENT HAS GRADE_REPORT, HAS should ba a 1 to N relationship
- 4. PREREQUISITE HAS COURSEAS_DESTINATION COURSE, HAS COURSEAS_DESTINATION should be a N to 1 relationship

5. PREREQUISITE PREREQUEST should be a N to 1 relationship

Chapter3	Entity	Relation	ıship
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Exercise 3.21:



Exercise 3.23:

- a. All string entities are listed as follow: BANK, ACCOUNT, LOAN, CUSTOMER
- b. Entity type **BANK_BRANCH** is a weak entity type, it's partial key is **Branch_no** and it's indentifying relationship is **BRANCH**
- c. the partial key and indentifying relationship specifies the exact branch bank(type **BANK_BRANCH**) of a bank(type **BANK**)

d.

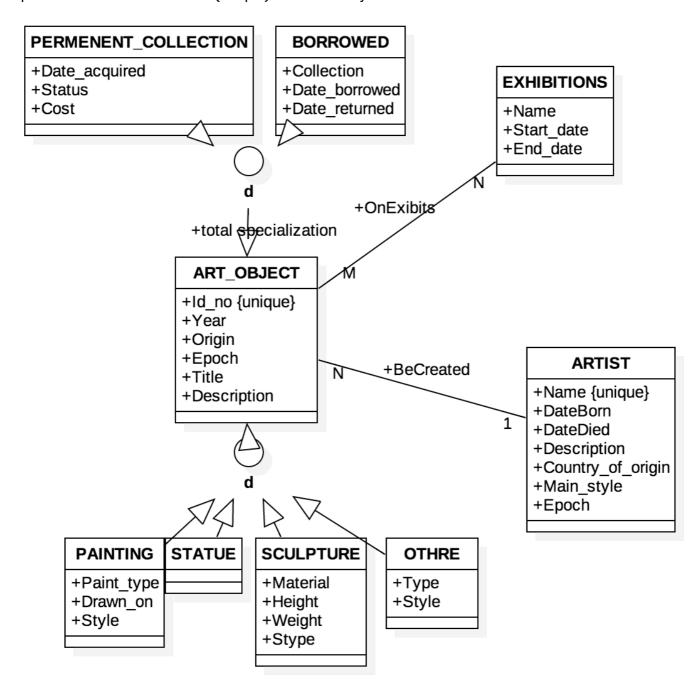
- 1. BRANCHES is total participation for both BANK and BANK_BRANCH
- 2. ACCTS is total participation for ACCOUNT
- 3. LOANS is total participation for LOAN
- 4. A_C is total participation for ACCOUNT
- 5. L_C is total participation for CUSTOMER

Chapter4 Enhanced Entity RelationShip

Exercise 4.20:

The EER diagram of the designed database is shown as follow:

Some diagramatic notation is not found in starUML(the UML tool I use), the specification/generalization is replaced by Generalization(UML) to a interface with d(stands for disjointness), and the completeness for specification is shown as text. {unique} stands for key attribute.



Exercise 4.26: diagram c is wrong for the superclass is not shown in the diagram