ACS – 3902 - 002

Database Systems
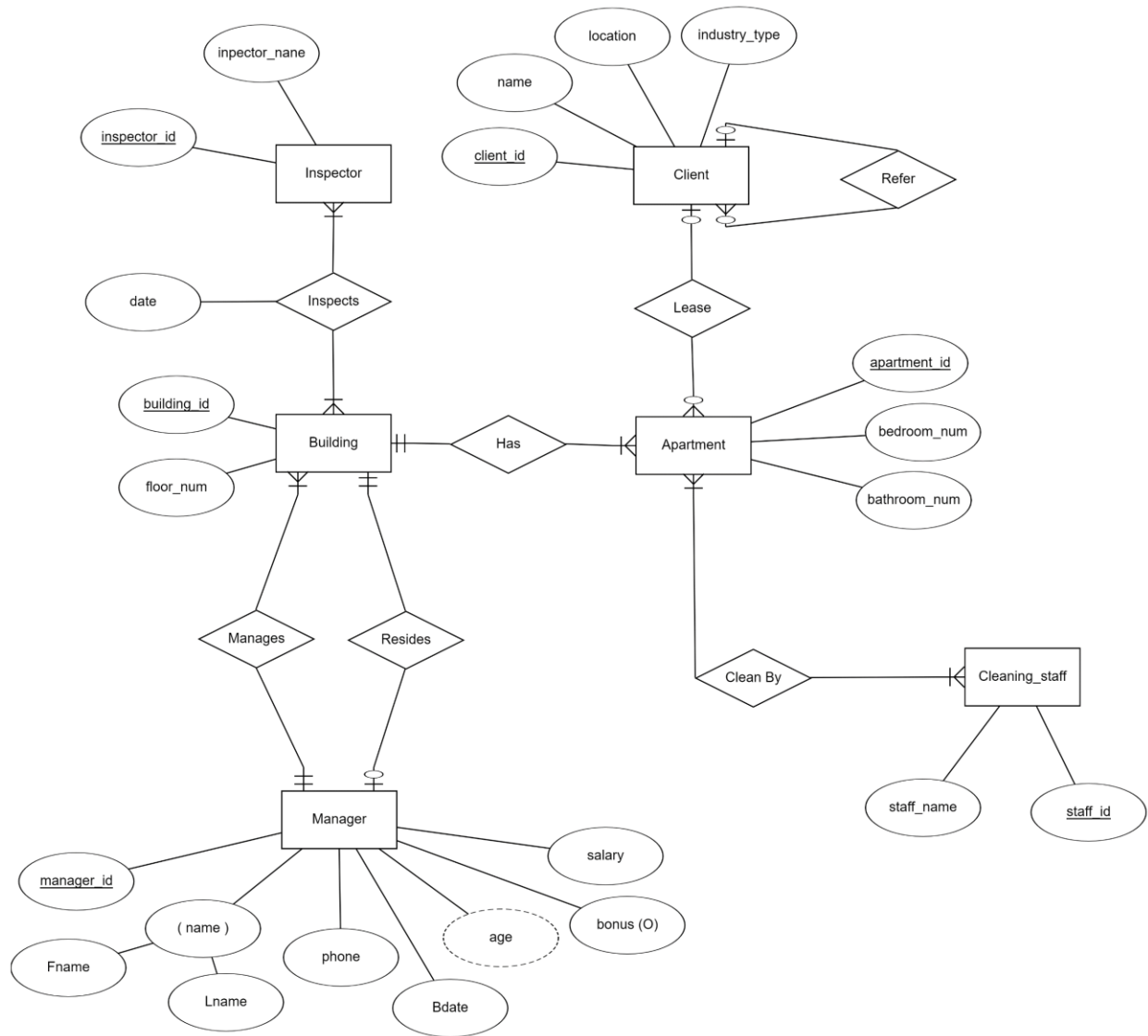
Assignment 3:

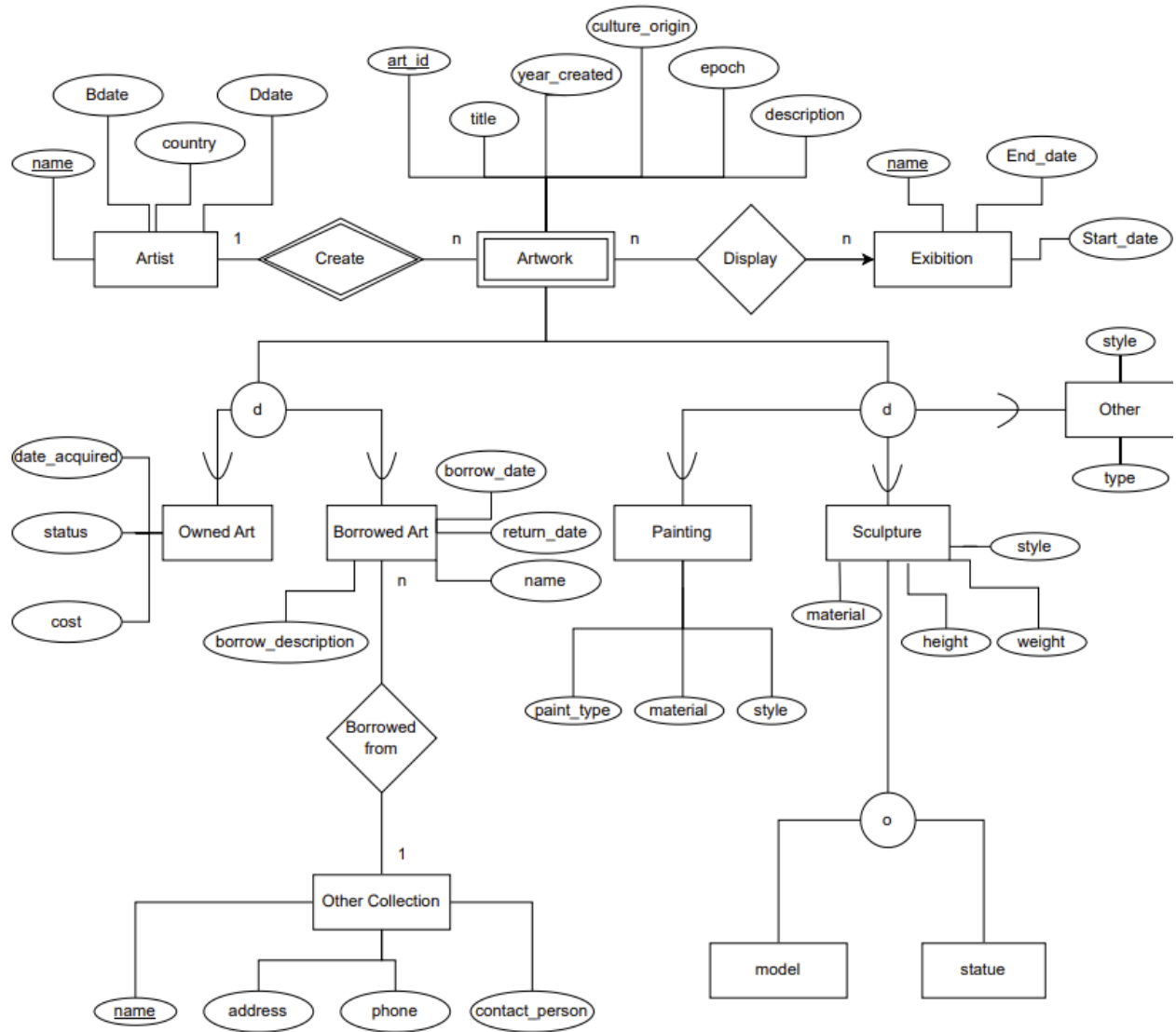Student#: 3129620

Student Name: Dai Dai Vo

Date: March 17, 2023

1.

2.

3.

Bank

name	number

Branch

number	bank_number	address	phone

Account

accNum	balance	bank_number	branh_number	overdraft	interestRate

Customer

custNum	first	last

customer_has_account

custNum	accNum	bank_number	branh_number

Loan

loanNum	interestRate	balance	bank_number	branh_number

Revolving_Loan

loanNum	bank_number	branh_number	limit	expriy

Regular_Loan

loanNum	bank_number	branh_number	amount	date	address	amortization	model	gradYear

customer_borrow_loan

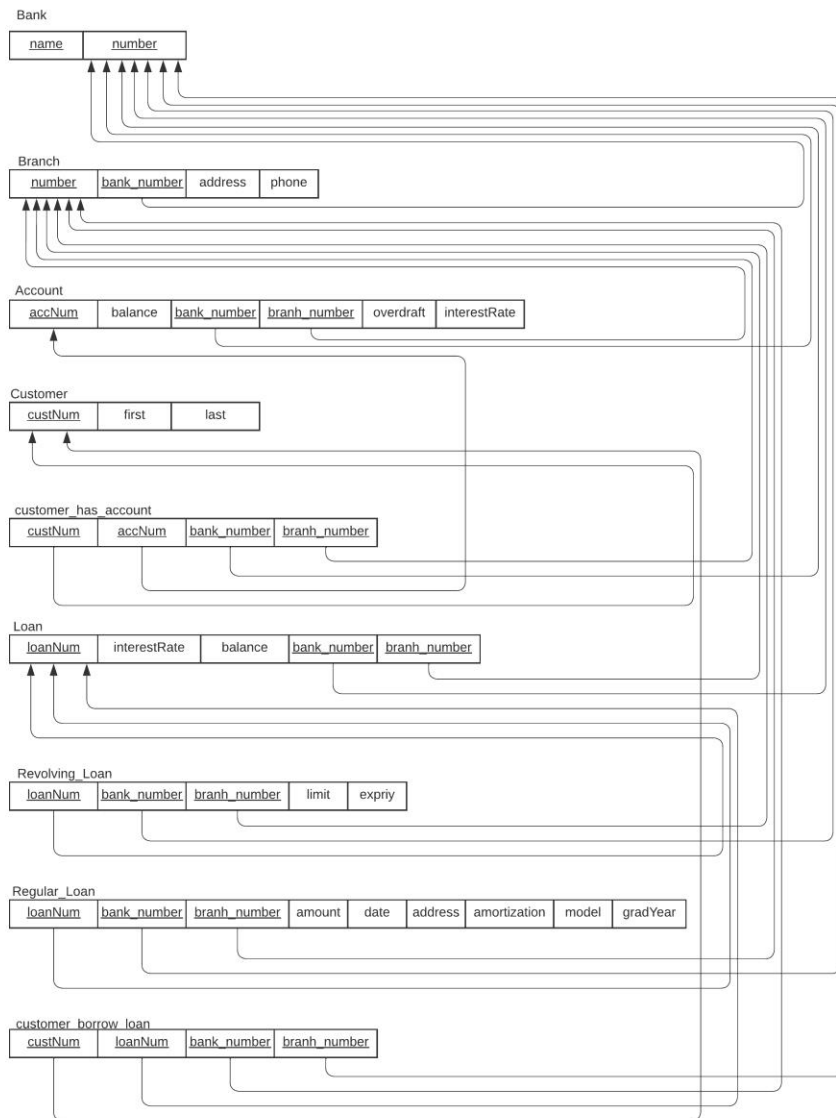| custNum	loanNum	bank_number	branh_number

I used option 8c for account since we can have every variable of chequing and savings in it, and we won't have much redundant data.

I used option 8a and split Loan to revolving and Regular loan since by that way, we will not have too much redundant data. If I used 8c for it, then in every table, we would have at least four nulls. Comparing between having three repeating data (loanNum, bank_number, branch_number) and four null at least in each table, having three repeating data seems to be a better trade off to me.

I used option 8c for Revolving and Regular because we can have variable of credit card, line of credit in Revolving and house, car, student in Regular without having much redundant data.