

# Assignment 2

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# Question 1:

Relation Schema: defines structure of relation in database with specifications of attributes and corresponding data types.

- Create table student ( student\_ID INT primary key, name varchar(50), major varchar(50), year INT)

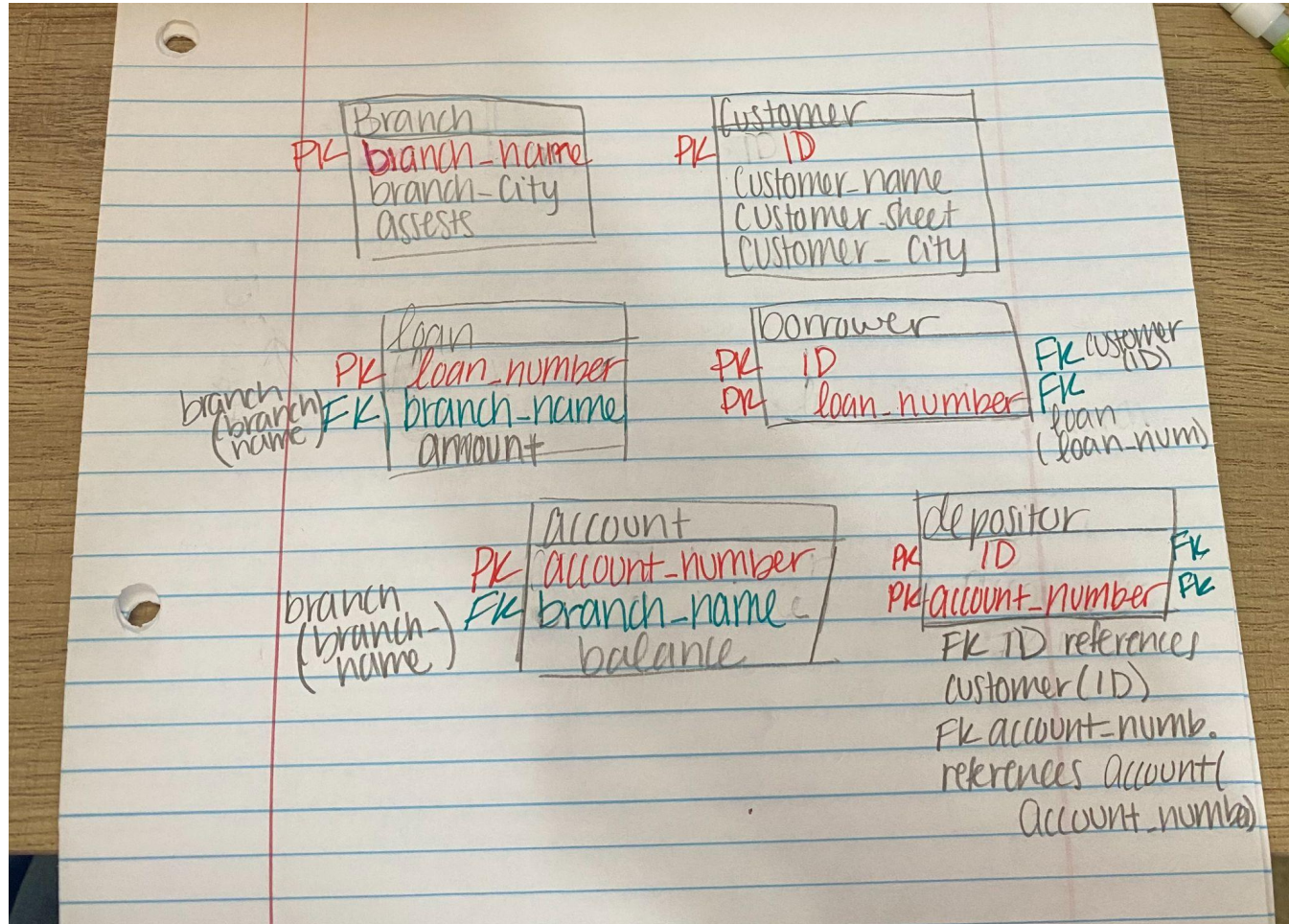
Relation: set of tuples that share common structure defined by relation schema

- (1, "John Doe", "Comp. Sci.", 2)

Instance: rows of data contained with table at specific time

- student\_id | name | major | year
- -----
- 1 | John Doe | Comp. Sci. | 2
- 2 | Jane Smith | Engineering | 2
- 3 | Alice Brown | Biology | 1

## Question 2



# Question 3:

Primary keys: branch(branch\_name), customer(ID), loan(loan\_number), borrower(ID, loan\_number), account(account\_number), depositor(ID, account\_number)

Foreign Keys:

loan(branch\_name) references branch(branch\_name)

borrower(ID) references customer(ID), borrower(loan\_number) references loan(loan\_number)

account(branch\_name) references branch(branch\_name)

depositor(ID) references customer(ID), depositor(account\_number) references account(account\_number)

