

# Assignment 2

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# Question One

- Relation is a table or a set of tuples (rows).

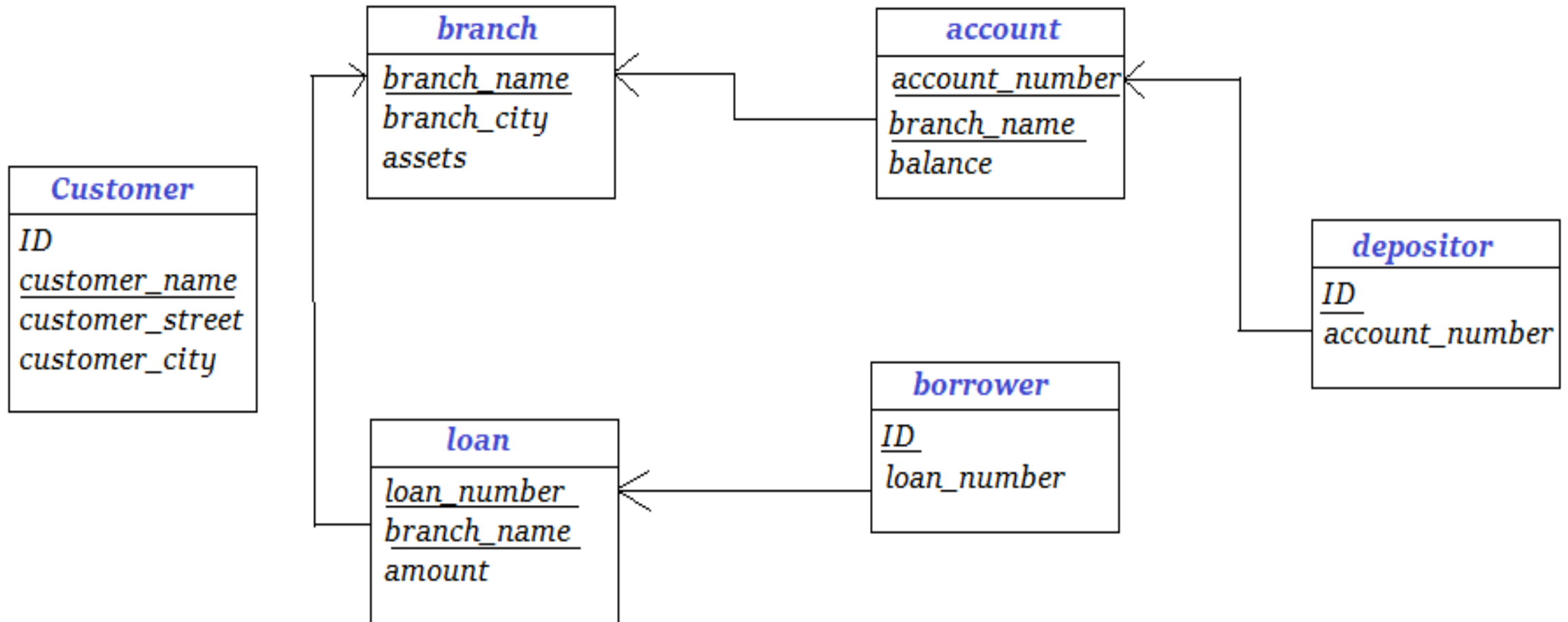
For example: *student* relation

- Relation instance is a snapshot of a relation (table) at a given time that shows a set of rows.
- Relation schema is a list of attributes and corresponding domain.

For example: *student (ID, course id, sec id, semester, year)*

- Domain is a set of permitted values
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# Question Two



# Question Three

- Primary keys are underlined in the diagram.
  - The arrows show foreign keys;
    - branch\_name* of the *loan* relation is a foreign key referencing the *branch* relation
    - branch\_name* of the *account* relation is a foreign key referencing the *branch* relation
    - account\_number* of the *depositor* relation is a foreign key referencing the *account* relation
    - loan\_number* of the *borrower* relation is a foreign key referencing the *loan* relation
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