

Assignment 2: Relational Model

EPPS 6354: Information Management

Relational Model Terms

- relation – stores information about a certain aspect in the database
- instance – refers to the content of a relation at a specific point of time

<i>course_id</i>	<i>title</i>	<i>dept_name</i>	<i>credits</i>
BIO-101	Introduction to Biology	Biology	4
BIO-301	Genetics	Biology	4
CS-101	Introduction to Computer Science	Computer Science	4
CS-190	Game Design	Computer Science	4
CS-315	Robotics	Computer Science	3
EE-181	Introduction to Digital Systems	Electrical Engineering	3
FIN-201	Investment Banking	Finance	3

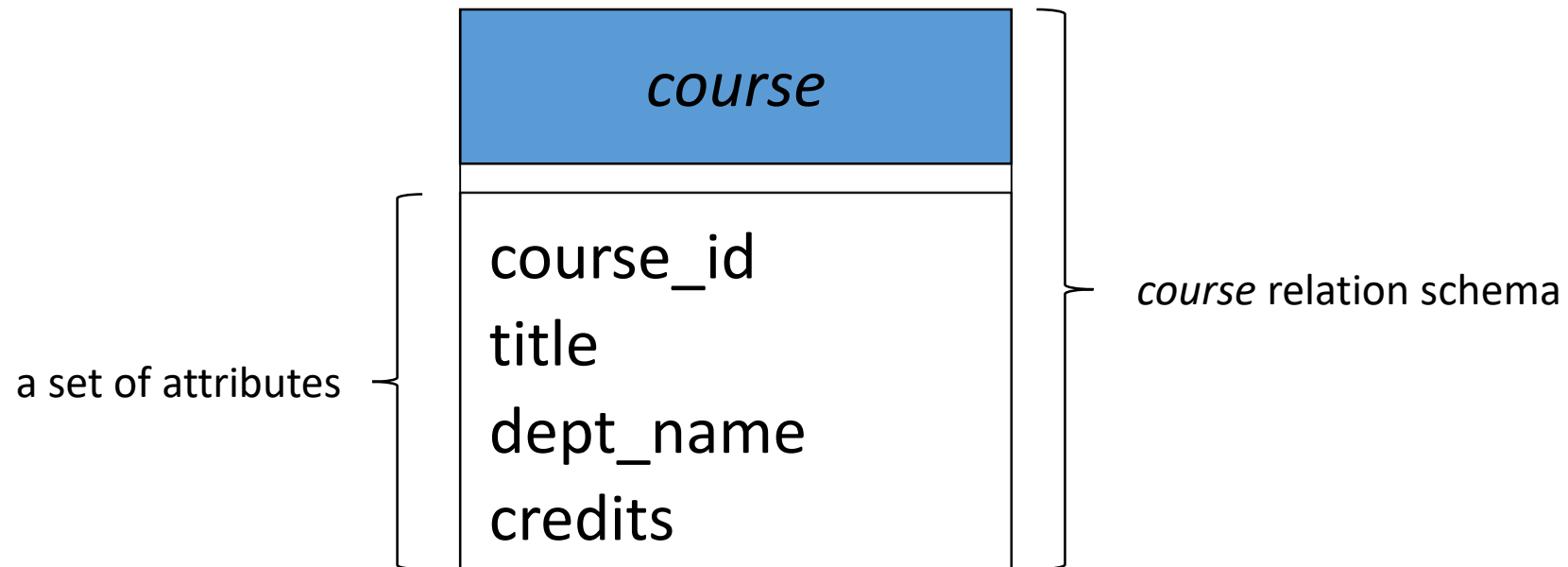
instance of *course* with 7 courses

course relation

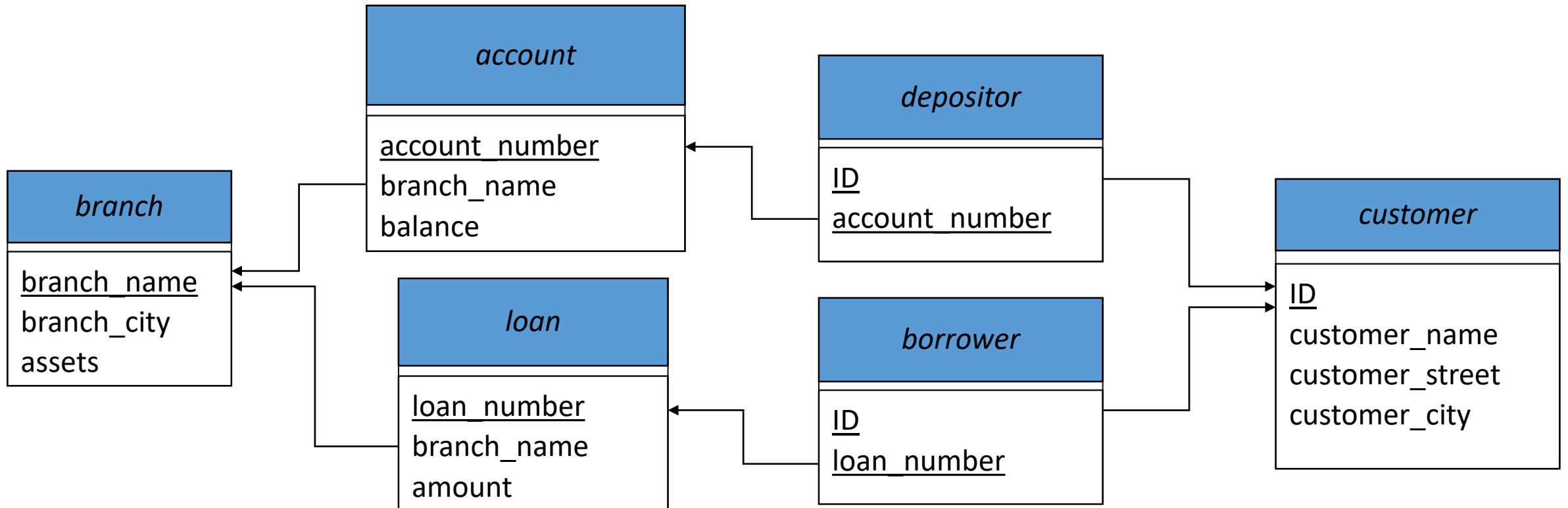
Relational Model Terms

- relation schema – lists a set of attributes for a specific relation, i.e., provides information describing a relation as a blueprint for the table

course (*course_id*, *title*, *dept_name*, *credits*)



Schema diagram for bank database



*Primary keys are underlined

*Foreign-key constraints are arrows from the referencing relation to the primary key of the reference relation