













JOIN Queries								
 Join two tables on an attribute 								
Majors:	id	name	departm	partment				
-	1	ART-BA	ART					
	2	ARTH-BA	ART					
Students:	id	lastName	firstName	gradYea	r majorID			
	10011	Aaronson	Aaron	2018	123			
	43123	Brown	Allison	2017	157			
SELECT lastName, name FROM Students, Majors WHERE Students.majorID=Majors.id; March 6, 2017 Sprenkle-CSCI397 8								



What if Students Have Multiple Majors?

- We don't necessarily want to add another column to Students table
 - > What if student has 2 majors?
- Example of Many to Many Relationship
- Solution: Create **StudentsToMajors** table:

studentID	majorID	Primary
435	243	(Stude Foreign
435	232	Studen
		-

rimary Key: StudentID, MajorID) oreign Keys from

Students, Majors Tables

March 8, 2 How will we find out a students name and their major? 10



INSERT Statements Automatically create ids INSERT INTO Majors (id, name, department) VALUES (nextval('majors_sequence'), 'CSCI', 'Computer Science'); If table is set up appropriately, let the DB handle creating unique ids: INSERT INTO Majors (name, department) VALUES ('CSCI', 'Computer Science');

March 8, 2017

Sprenkle - CSCI397

12



























