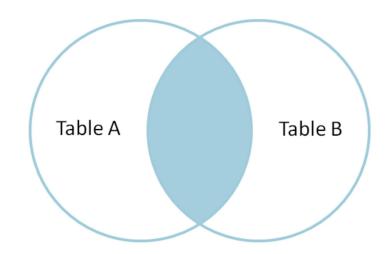
CIS 678 Machine Learning

Database Table Joins

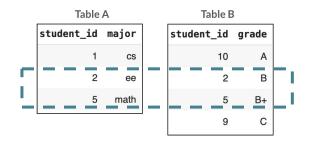
Inner join

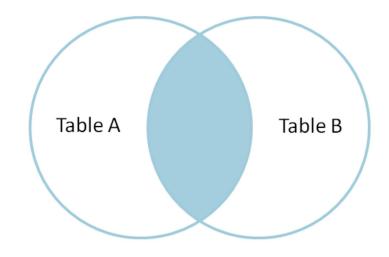
- Joins are performed through some common keys, shared across tables
- Only preserve records for which data is available in both tables.



Inner join

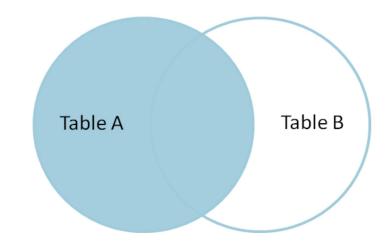
- Only preserve records for which data is available in both tables.
- We see below an example with student_id be the join key.





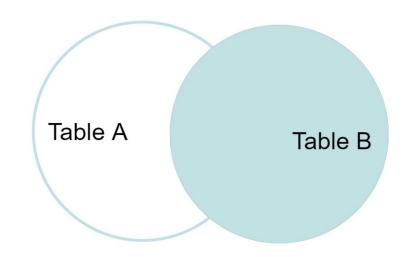
Left join

- Joins are performed through some common keys, shared across tables
- All records from the left table are preserved, even though no corresponding information is available in the right table



Right join

- Joins are performed through some common keys, shared across tables
- All records from the right table are preserved, even no corresponding information is available in the right table



Outer/full join

- Joins are performed through some common keys, shared across tables
- All records from the both tables are preserved, even no corresponding information is available in the other table

