

Lecture 10A (Monday, Mar. 12)

Logistics

- HW4 out
- Midterm next week before spring break

More Queries

- We saw Intersection
- Let's look at Union
- Intersection - is a join
- Double negation - what?

```
SELECT DISTINCT author_id, author_name
FROM author
  JOIN author_proc_articles apa1 USING (author_id)
  JOIN conf_series cs USING (cs_id)
WHERE cs_hb_key = 'AH'
      AND NOT EXISTS(SELECT proc_id FROM proceedings inp
WHERE inp.cs_id = cs.cs_id
      AND NOT EXISTS (SELECT *
                      FROM author_proc_articles apa2
                      WHERE apa2.cs_id = apa1.cs_id
                        AND apa1.author_id = apa2.author_id
                        AND apa2.proc_id = inp.proc_id))
```

Further reading:

<https://www.red-gate.com/simple-talk/sql/t-sql-programming/divided-we-stand-the-sql-of-relational-division/>

Other methods:

- Count
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More JDBC - binding parameters