Notes lecture 7

* the **renaming** operator: 𝜌(R′(A1 → A1’, A2 → A2’, A3 → A3’), E)
* **independent set** **of operators** M if
  + a relation that can be obtained using M's operators
  + but cannot be obtained with the operators in M-{op},
* **eliminating duplicates** from a relation = SELECT DISTINCT
* **sorting** records in a relation
  + SELECT \*

FROM R

ORDER BY <>

* **grouping:**
  + group by list2
  + list1 is eval for each group of records
  + SELECT <list1>

FROM R

GROUP BY <list2>