# SQL preliminary! Chapter 7 Most important: 7.2





D-1



### Some Notation

- Attributes can be qualified
- Tables can be renamed
- SELECT S.FNAME, S.LNAME FROM EMPLOYEE E, EMPLOYEE S WHERE E.SUPERSSN = S.ESSN
- SELECT \* means display all columns
- No WHERE means display all rows

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#### Set Operations

- UNION, intersections ("INTERSECT"), difference ("EXCEPT")
  - DO eliminate duplicates
  - Use to connect whole sets (result of queries), not within WHERE
- EXCEPT not supported by MS Access 97
- Division is not an SQL operation
- Older SQL had a CONTAINS (set inclusion)

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#### IN and EXISTS

#### • IN

- Tests for membership in a set:  $x \in A$
- Binary operator returning Boolean value
  - used within conditions (WHERE)
  - left side a row (or value construed as a row)
  - right side a table, frequently the result of a (nested) SELECT
- EXISTS

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Unary operator returning a Boolean
tests a table for non-empty: A≠Ø

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## 2