



self join

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applied when a table must join itself

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- if you'd like to combine certain rows of a table with other rows of the same table, you need a self-join

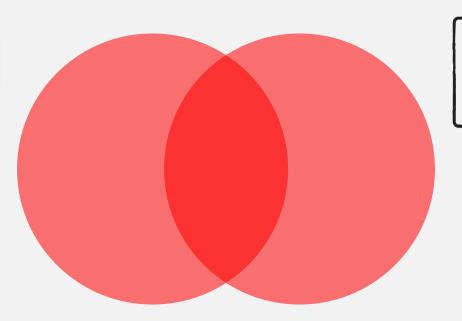
dept_manager_dup

dept_no CHAR(4)

emp_no INT

from_date DATE

to_date DATE



departments_dup

dept_no CHAR(4)

dept_name VARCHAR(40)

Related column: dept_no

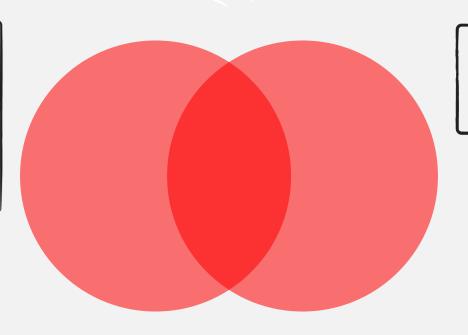


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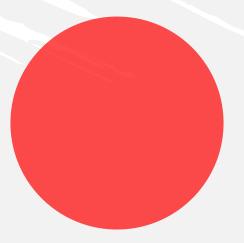
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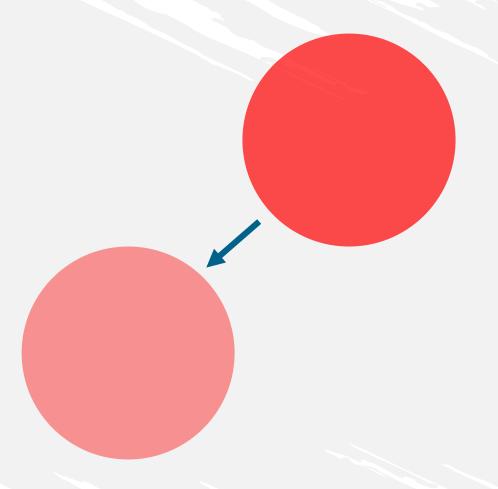


SQL Self Join



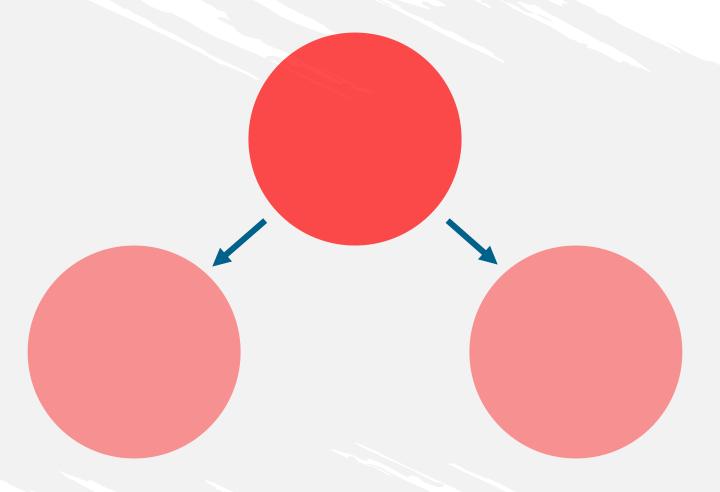
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- the 2 tables will be identical to the table you'll be using in the self-join

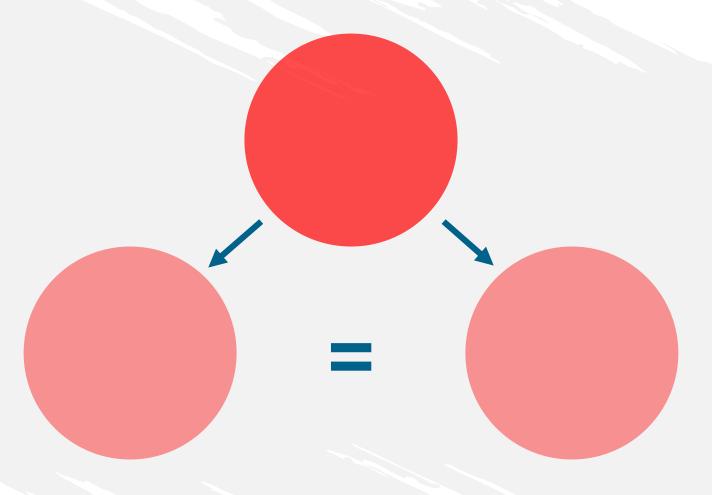




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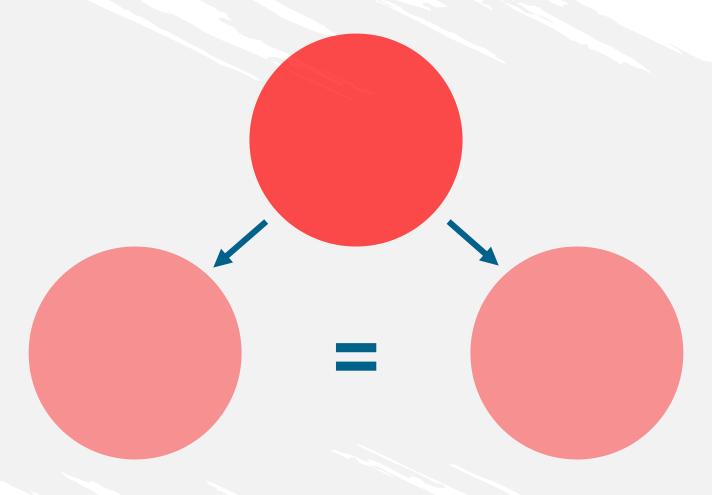


SQL Self Join



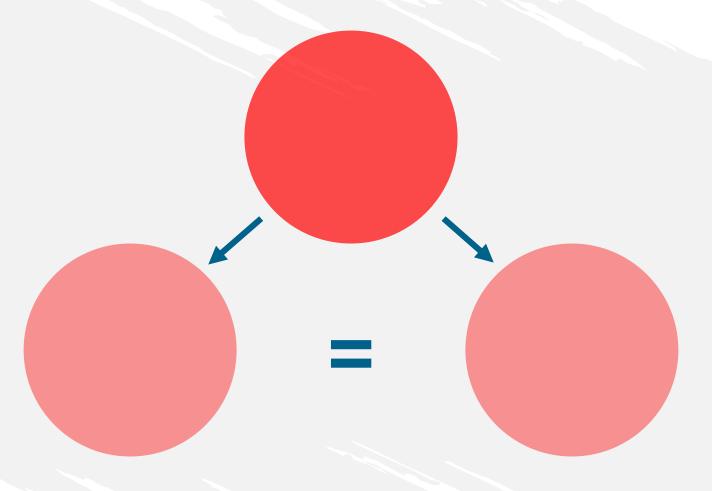
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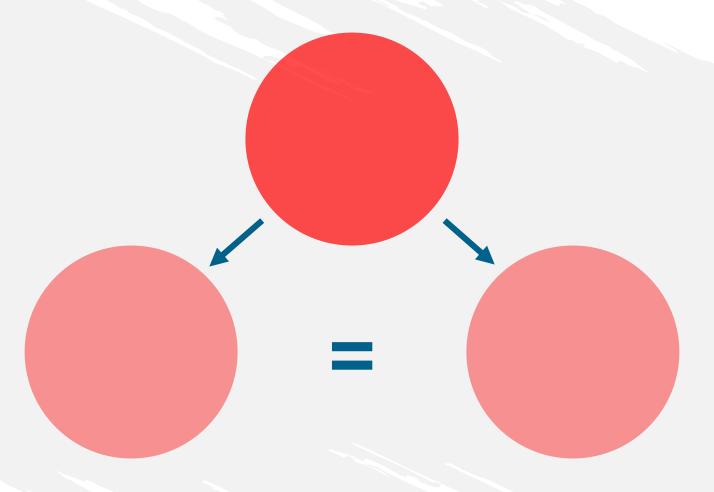
- the 2 tables will be identical to the table you'll be using in the self-join
- you can think of them as <u>virtual projections</u> of the underlying, <u>base table</u>





- the <u>self-join</u> will reference both implied tables and will treat them as two separate tables in its operations





- the data used will come from a single source, which is the underlying table that stores data *physically*



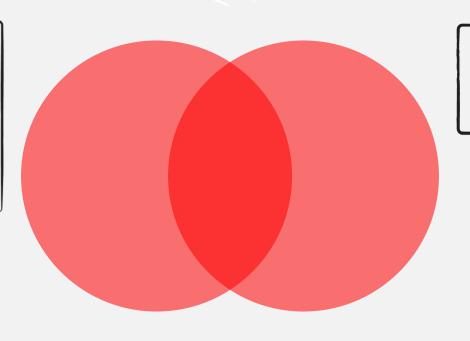
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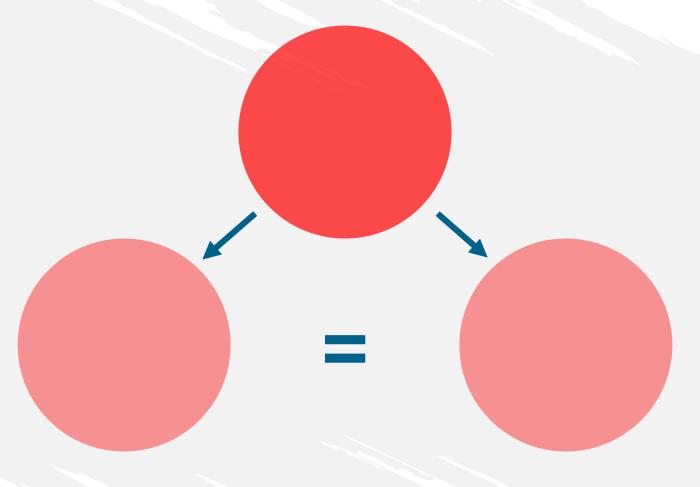
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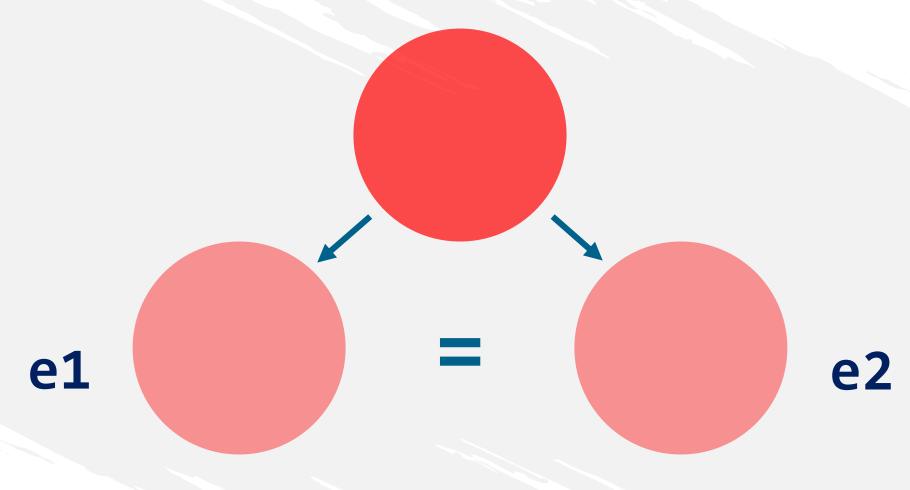
M

D



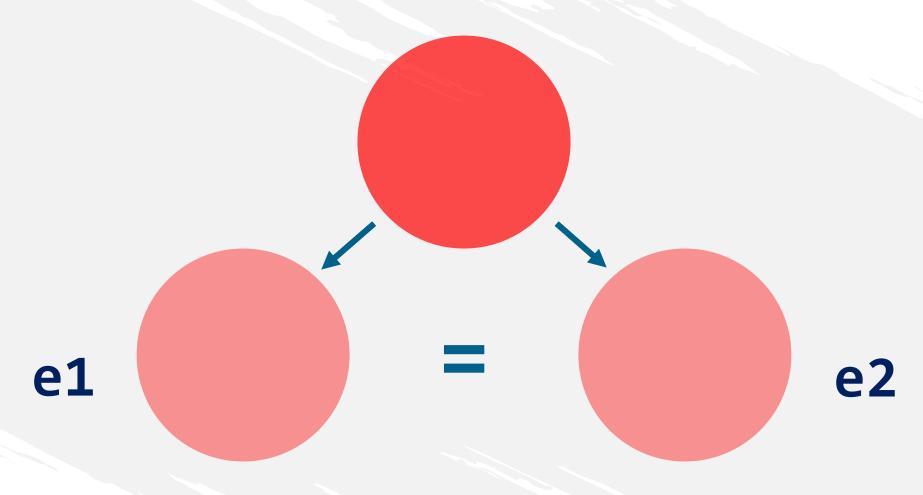
- using aliases is obligatory





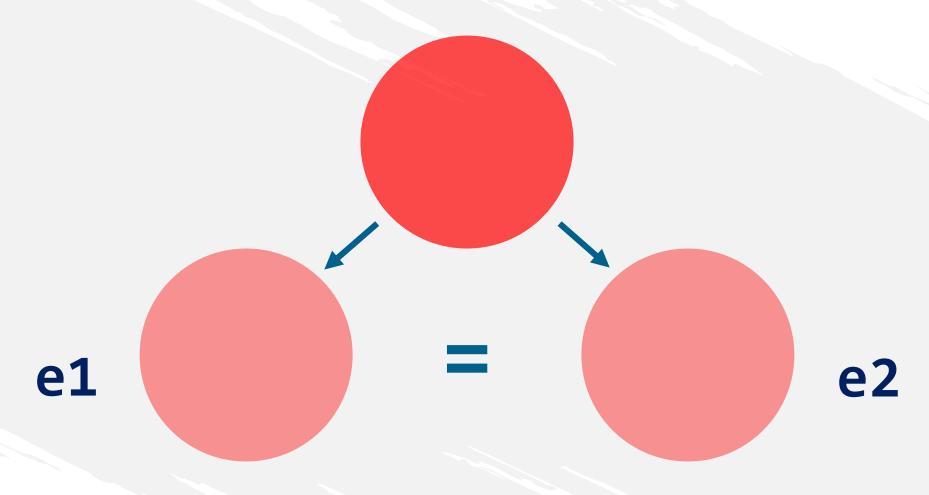
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- these references to the original table let you use different blocks of the available data





- you can either filter both in the join, or you can filter one of them in the WHERE clause, and the other one - in the join



SQL Self Join emp_manager **e2** e1 365√DataScience