

Management

Lesson 7: Relational Algebra

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- Video: Relational Algebra Operators: Union, Difference, Selection 6 min
- Video: Relational Algebra Operators: Projection, Cross Product 4 min
- Video: Relational Algebra Operators: Cross Product cont'd, Join 6 min
- Video: Relational Algebra Operators: Outer Join 4 min
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Lesson 8: SQL for Data Science

Lesson 9: Key Principles of Relational Databases

Assignment 2: SQL

Relational Algebra Operators: Cross Product cont'd, Join

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Name	SSN
John	999999999
Tony	777777777

EmpSSN	DepName
999999999	Emily
777777777	Joe

Name	SSN	EmpSSN	DepName
John	999999999	999999999	Emily
John	999999999	777777777	Joe
Tony	777777777	999999999	Emily
Tony	777777777	777777777	Joe

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English

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0:01 So what does the cross product look like? Well imagine you had table employee with these two columns and a table dependent with these two columns, and we do a, oops there's a, there we do a cross product of employee with dependent. That's all possible combinations of employees with all possible combinations of dependents. So we know there's going to be four in the output. And you can check to see that John is here twice, once for every instance in dependent and so on. All right.

0:39 So now let's talk about join, and I probably maybe should have put a slide in here just about join