Mix and squeeze data

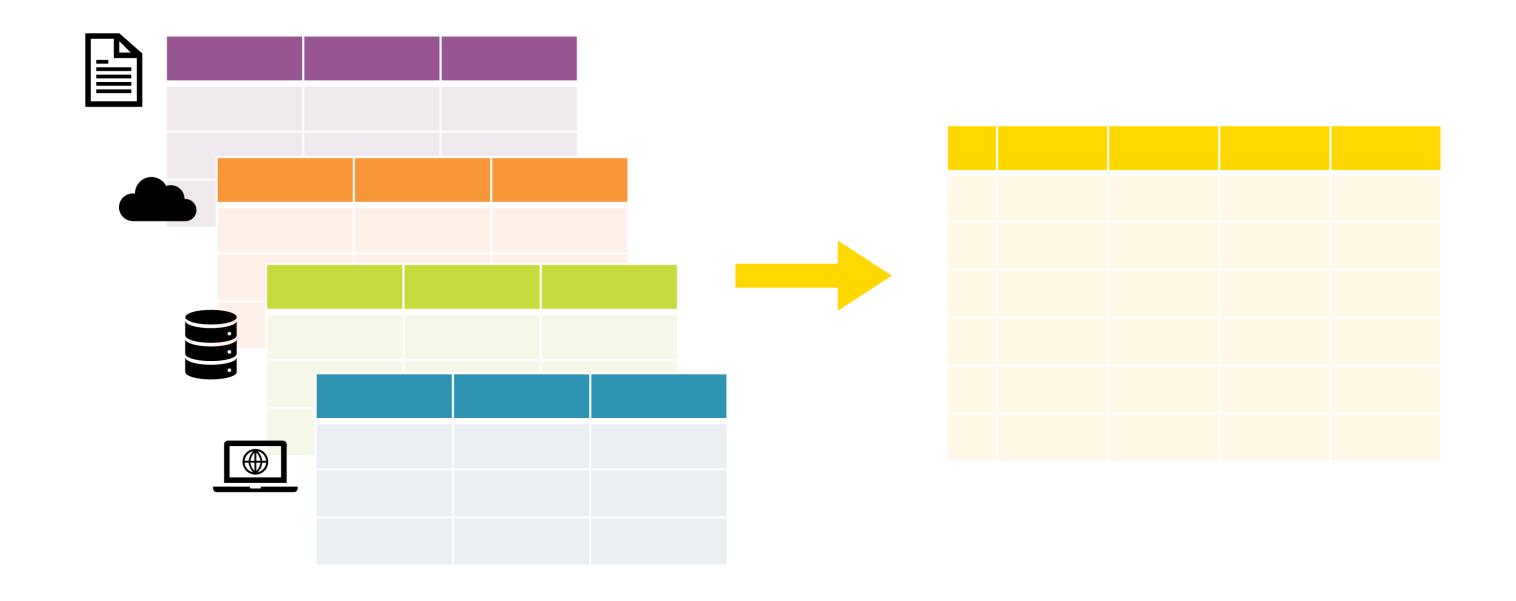
INTRODUCTION TO KNIME



Emilio SilvestriData Scientist



Data merging



#	EmployeeID	Name	Department	Favorite food
1	EMP-43	Jenny	Sales	Pizza
2	EMP-29	Alex	Finance	Sushi
3	EMP-11	Taylor	R&D	Tacos
4	EMP-29	Alex	Finance	Sushi
5	EMP-66	Sam	R&D	Salad

#	EmployeeID	Name	Department	Favorite food
1	EMP-43	Jenny	Sales	Pizza
2	EMP-29	Alex	Finance	Sushi
3	EMP-11	Taylor	R&D	Tacos
4	EMP-29	Alex	Finance	Sushi
5	EMP-66	Sam	R&D	Salad

#	ID	Salary
1	EMP-11	25000
2	EMP-29	22000
3	EMP-43	28000
4	EMP-88	22000

#	EmployeeID	Name	Department	Favorite food
1	EMP-43	Jenny	Sales	Pizza
2	EMP-29	Alex	Finance	Sushi
3	EMP-11	Taylor	R&D	Tacos
4	EMP-29	Alex	Finance	Sushi
5	EMP-66	Sam	R&D	Salad

#	ID	Salary
1	EMP-11	25000
2	EMP-29	22000
3	EMP-43	28000
4	EMP-88	22000

#	EmployeeID	Name	Department	Favorite food	Salary
1	EMP-43	Jenny	Sales	Pizza	
2	EMP-29	Alex	Finance	Sushi	
3	EMP-11	Taylor	R&D	Tacos	
4	EMP-29	Alex	Finance	Sushi	
5	EMP-66	Sam	R&D	Salad	

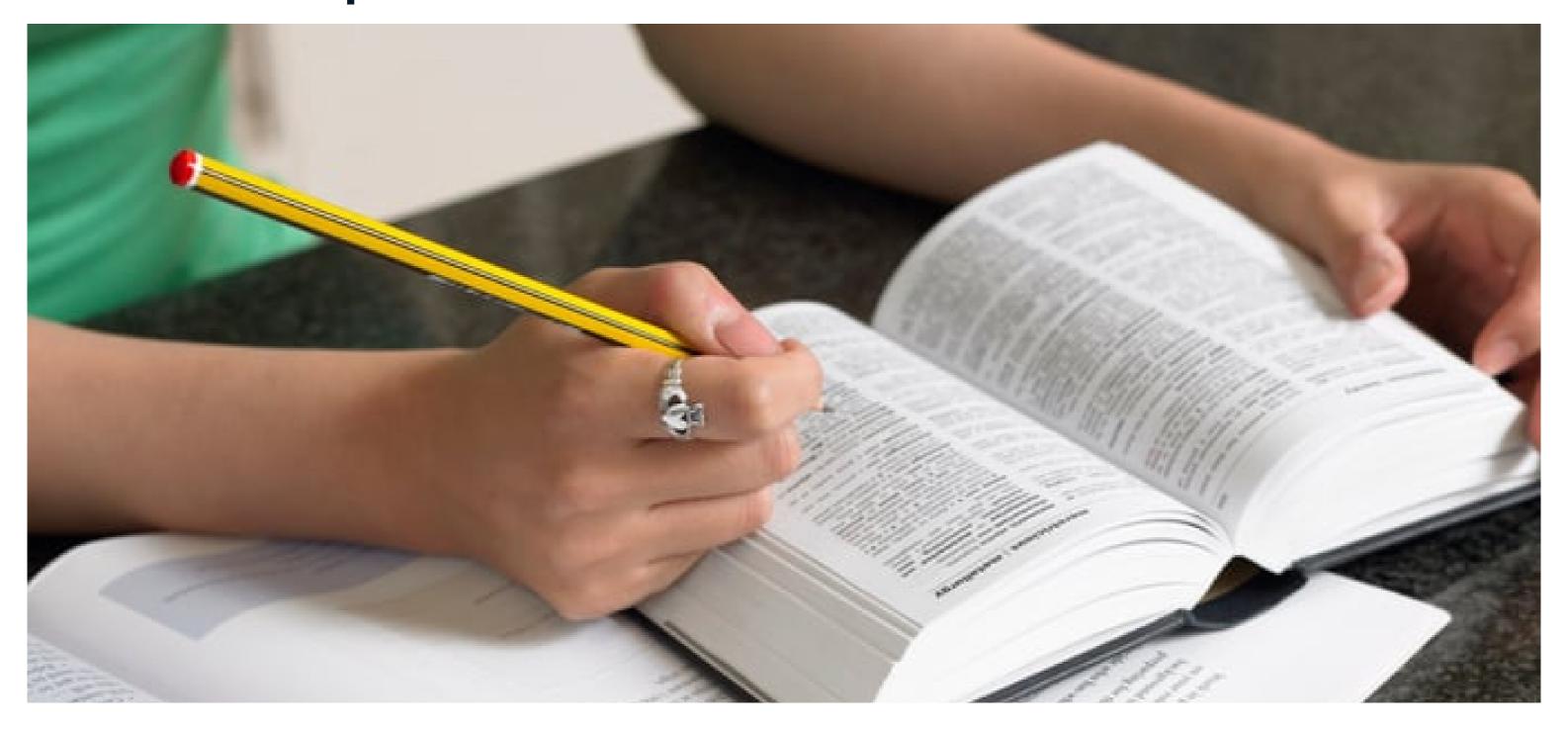
#	ID	Salary
1	EMP-11	25000
2	EMP-29	22000
3	EMP-43	28000
4	EMP-88	22000

#	EmployeeID	Name	Department	Favorite food	Salary
1	EMP-43	Jenny	Sales	Pizza	
2	EMP-29	Alex	Finance	Sushi	
3	EMP-11	Taylor	R&D	Tacos	
4	EMP-29	Alex	Finance	Sushi	
5	EMP-66	Sam	R&D	Salad	

#	ID	Salary
1	EMP-11	25000
2	EMP-29	22000
3	EMP-43	28000
4	EMP-88	22000

#	EmployeeID	Name	Department	Favorite food	Salary
1	EMP-43	Jenny	Sales	Pizza	28000
2	EMP-29	Alex	Finance	Sushi	
3	EMP-11	Taylor	R&D	Tacos	
4	EMP-29	Alex	Finance	Sushi	
5	EMP-66	Sam	R&D	Salad	

#	ID	Salary
1	EMP-11	25000
2	EMP-29	22000
3	EMP-43	28000
4	EMP-88	22000



#	EmployeeID	Name	Department	Favorite food	Salary
1	EMP-43	Jenny	Sales	Pizza	28000
2	EMP-29	Alex	Finance	Sushi	22000
3	EMP-11	Taylor	R&D	Tacos	25000
4	EMP-29	Alex	Finance	Sushi	22000
5	EMP-66	Sam	R&D	Salad	

#	ID	Salary	
1	EMP-11	25000	
2	EMP-29	22000	Dictionary
3	EMP-43	28000	
4	EMP-88	22000	

#	EmployeeID	Name	Department	Favorite food	Salary
1	EMP-43	Jenny	Sales	Pizza	28000
2	EMP-29	Alex	Finance	Sushi	22000
3	EMP-11	Taylor	R&D	Tacos	25000
4	EMP-29	Alex	Finance	Sushi	22000
5	EMP-66	Sam	R&D	Salad	

				_
	#	ID	Salary	
Lookup column	1	EMP-11	25000	
	2	EMP-29	22000	Dictionary
Key column	3	EMP-43	28000	
	4	EMP-88	22000	

#	EmployeeID	Name	Department	Favorite food	Salary
1	EMP-43	Jenny	Sales	Pizza	28000
2	EMP-29	Alex	Finance	Sushi	22000
3	EMP-11	Taylor	R&D	Tacos	25000
4	EMP-29	Alex	Finance	Sushi	22000
5	EMP-66	Sam	R&D	Salad	?

				_
	#	ID	Salary	
Lookup column	1	EMP-11	25000	
	2	EMP-29	22000	Dictionary
Key column	3	EMP-43	28000	
	4	EMP-88	22000	







#	Name	Department	Salary
1	Jenny	Sales	28000
2	Alex	Finance	22000
3	Taylor	R&D	25000
4	Andrea	Finance	22000
5	Sam	R&D	27000



#	Sum of Salary
1	124000





#	Name	Department	Salary
1	Jenny	Sales	28000
2	Alex	Finance	22000
3	Taylor	R&D	25000
4	Andrea	Finance	22000
5	Sam	R&D	27000

Aggregation column

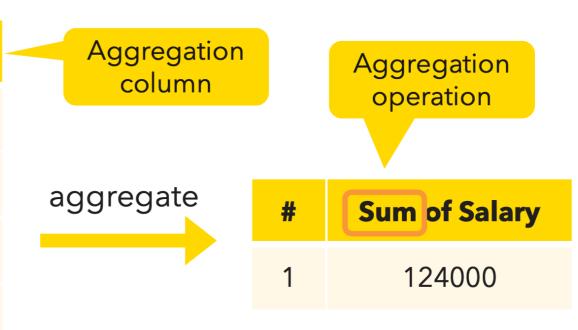


#	Sum of Salary
1	124000





#	Name	Department	Salary
1	Jenny	Sales	28000
2	Alex	Finance	22000
3	Taylor	R&D	25000
4	Andrea	Finance	22000
5	Sam	R&D	27000

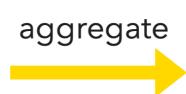




Category column



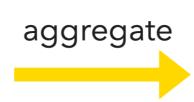
#	Name	Department	Salary
1	Jenny	Sales	28000
2	Alex	Finance	22000
3	Taylor	R&D	25000
4	Andrea	Finance	22000
5	Sam	R&D	27000



#	Department	Sum of Salary
1	Sales	28000
2	Finance	44000
3	R&D	52000



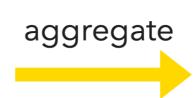
#	Name	Department	Salary
1	Jenny	Sales	28000
2	Alex	Finance	22000
3	Taylor	R&D	25000
4	Andrea	Finance	22000
5	Sam	R&D	27000



#	Department	Number of employees
1	Sales	1
2	Finance	2
3	R&D	2



#	Name	Department	Salary
1	Jenny	Sales	28000
2	Alex	Finance	22000
3	Taylor	R&D	25000
4	Andrea	Finance	22000
5	Sam	R&D	27000



#	Department	Average Salary
1	Sales	28000
2	Finance	22000
3	R&D	26000

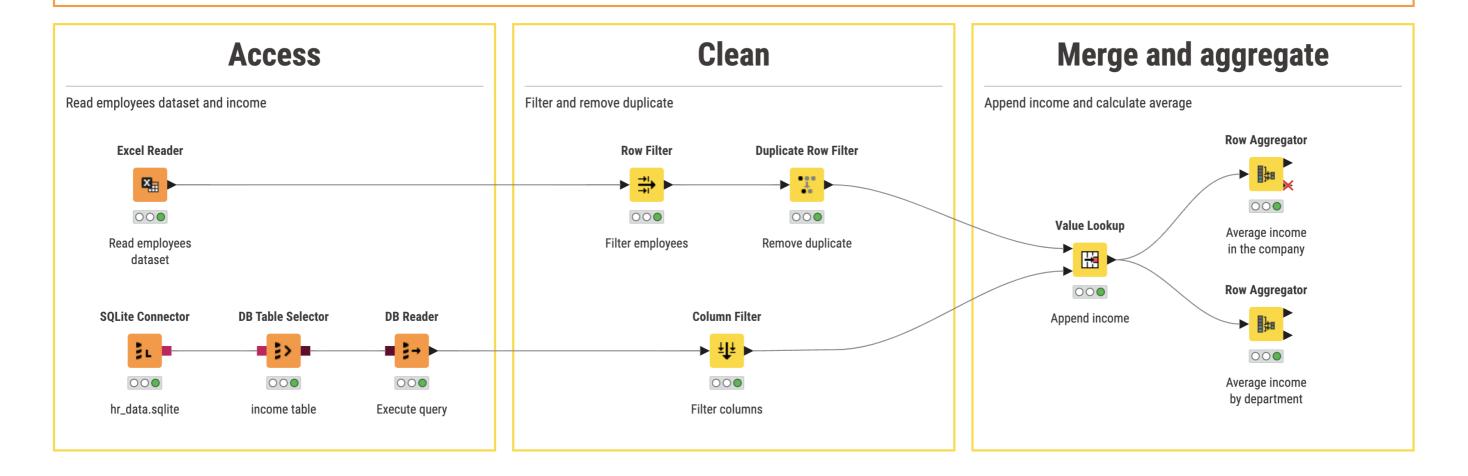


Documentation



Documentation

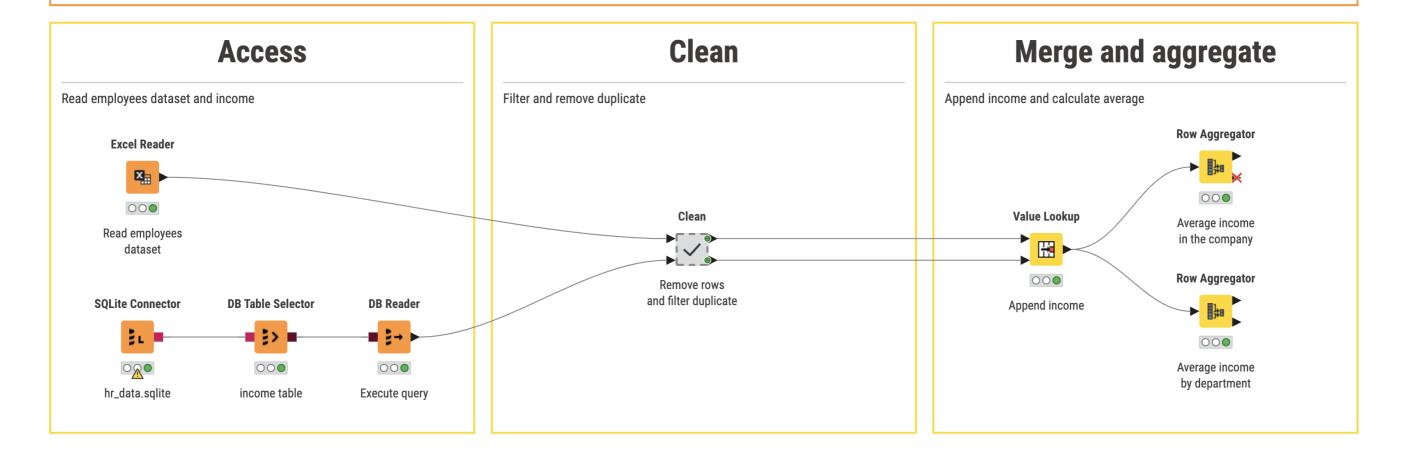
Calculate average income





Metanodes

Calculate average income





Let's practice!

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Crunching data in KNIME Analytics Platform

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Emilio SilvestriData Scientist



Let's practice!

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Congratulations!

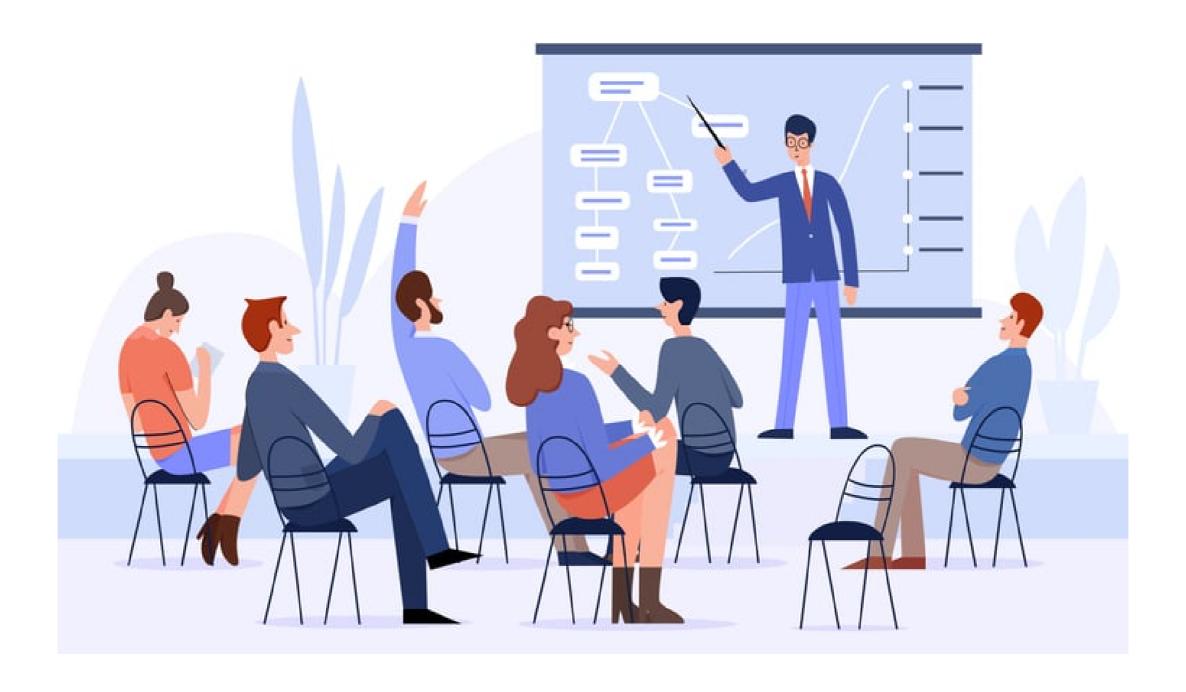
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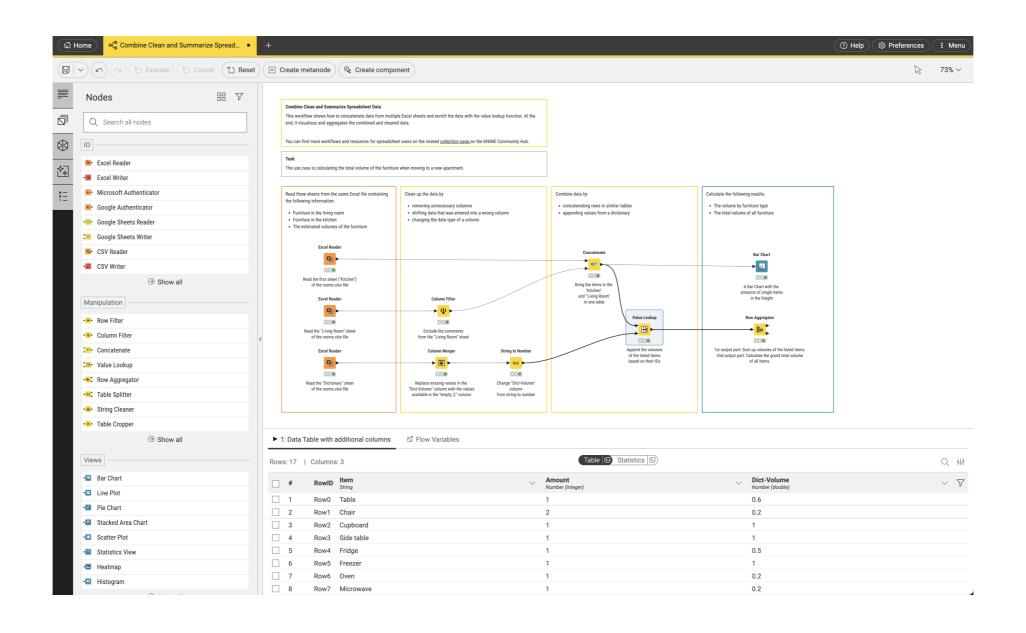
Emilio SilvestriData Scientist, KNIME



Recap

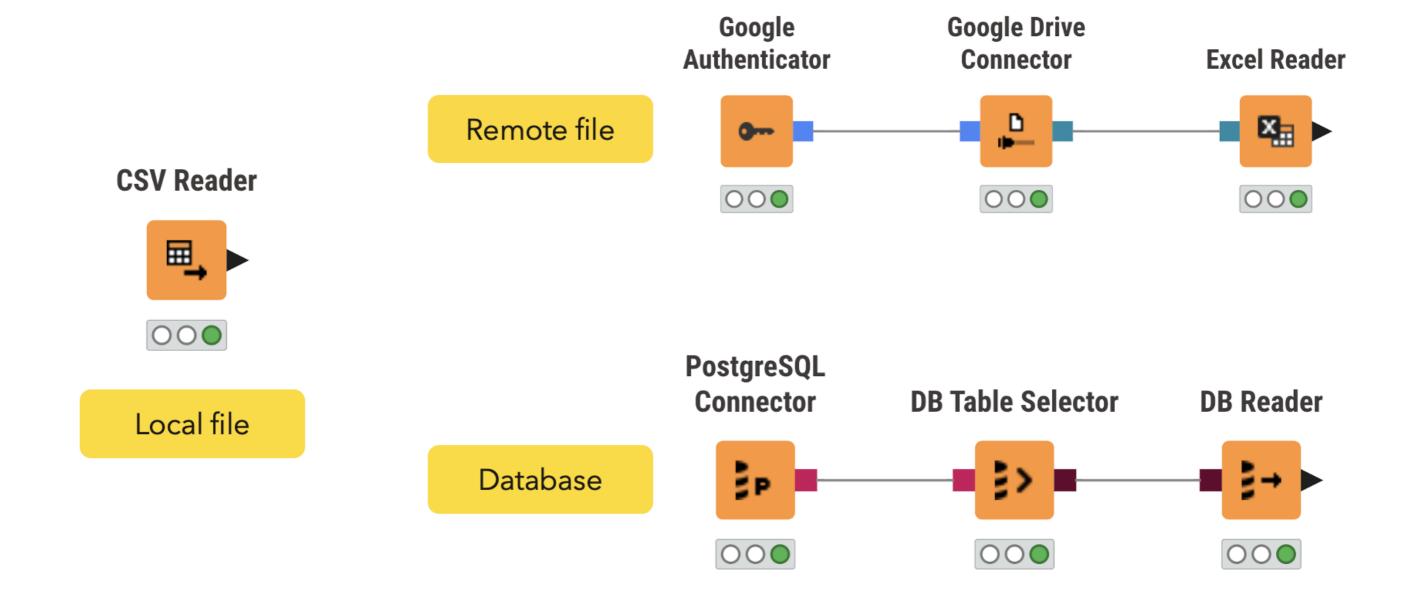


KNIME Analytics Platform

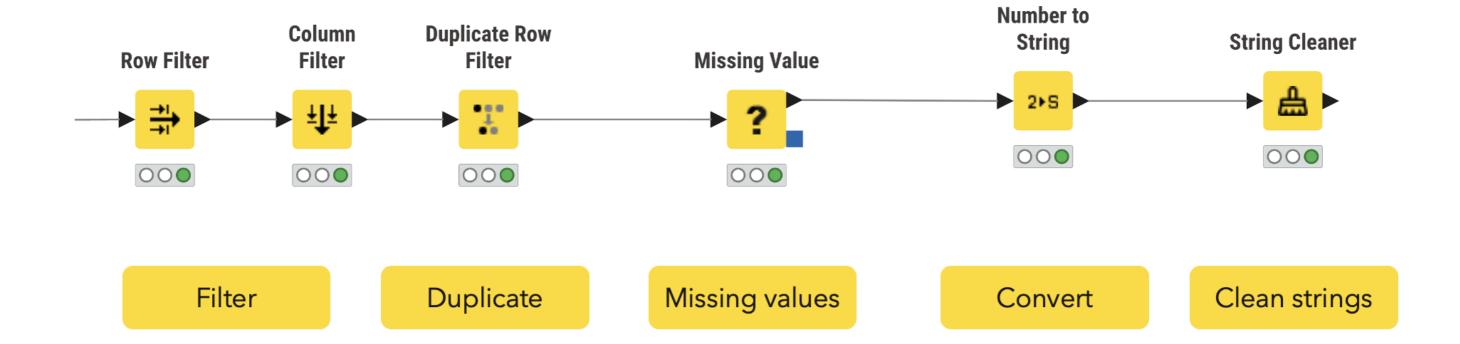




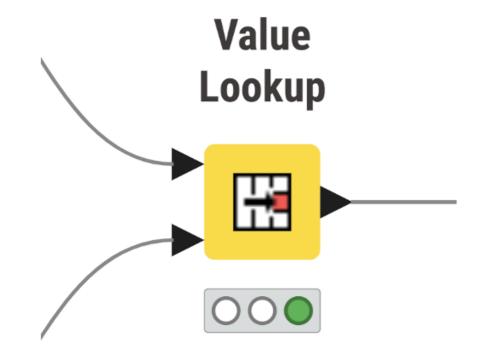
Data access

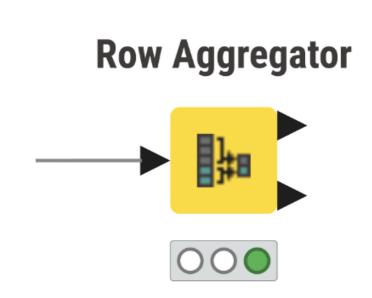


Data cleaning



Data merging and aggregation





More to come



Congratulations!

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