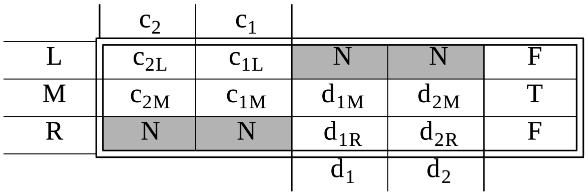
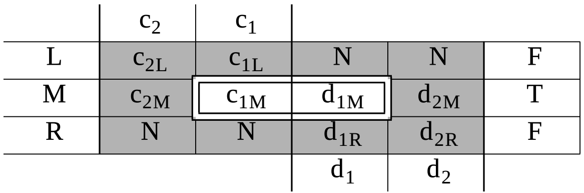


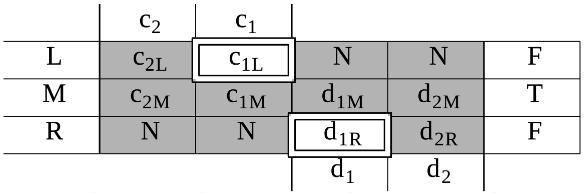
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Hyper-join. (Double outline shows output. Shaded areas are empty on input.)



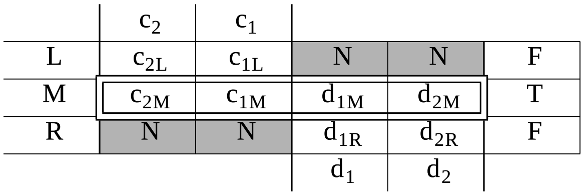
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Cross-product. Each tuple in C matches each tuple in D.



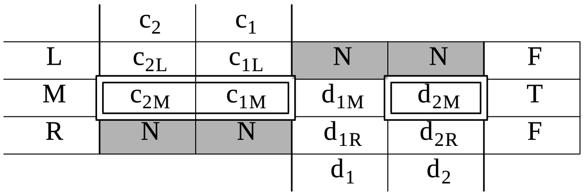
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Append. No tuple in C matches any tuple in D.



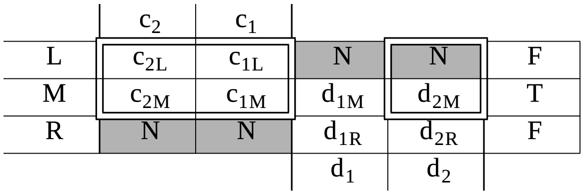
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Join. Match on any predicate $p(c_1,d_1)$.



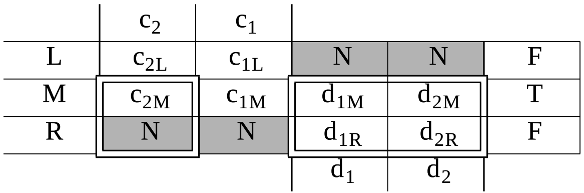
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Equijoin. Match on $c_1=d_1$.



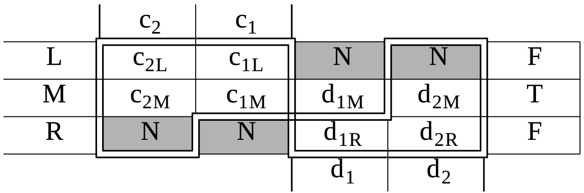
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Left outer-join. Match on $c_1=d_1$.



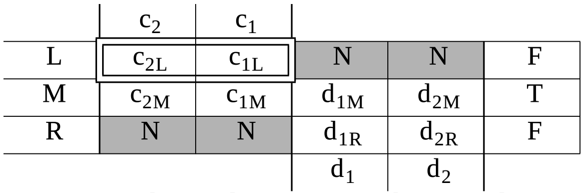
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Right outer-join. Match on $c_1=d_1$.



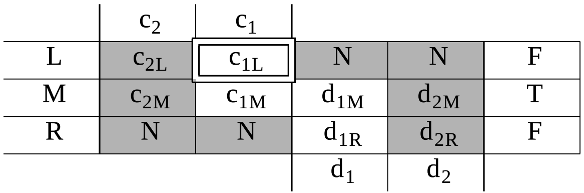
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Symmetric outer-join. Match on $c_1=d_1$.



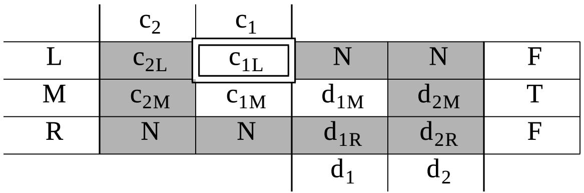
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

General complement. Match on $c_1=d_1$.



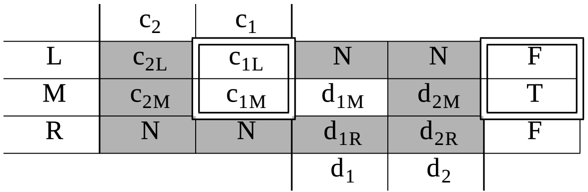
	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Relative complement. Match on $c_1=d_1$.



	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Negation of D. Match on $c_1=d_1$. C is dom(D).



	c_2	c_1			
L	c_{2L}	c_{1L}	N	N	F
M	c_{2M}	c_{1M}	d_{1M}	d_{2M}	T
R	N	N	d_{1R}	d_{2R}	F
			d_1	d_2	

Hyperextension of D. Match on $c_1=d_1$. C is dom(D).