



Database



Data Access:  
Estimate event frequencies  
Positive relationships only

row	parent <sub>1</sub>	...	parent <sub>k</sub>	child	Möbius parameters
1					
...					
r					

Möbius Parameter Table  
Positive relationships only



Computation:  
Inverse Möbius Transform

row	parent <sub>1</sub>	...	parent <sub>k</sub>	child	Joint probabilities
1					
...					
r					

Joint Probability Table  
Positive and negative relationships



Computation:  
Conditional Probability Formula

row	parent <sub>1</sub>	...	parent <sub>k</sub>	child	Conditional probabilities
1					
...					
r					

$$P(\text{child\_value} \mid \text{parent\_values}) = \frac{P(\text{child\_value}, \text{parent\_values})}{\sum_{\text{child\_values}'} P(\text{child\_value}', \text{parent\_values})}$$

Conditional Probability Table  
Positive and negative relationships