

(a) Database Tables

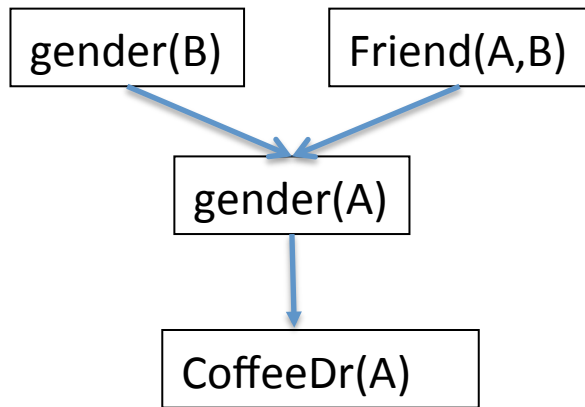
Person (sample)

Name	Gender	Coffee Drinker
anna	W	T
bob	M	F

Friend (sample)

Name1	Name2
anna	bob
bob	anna

(b) Bayes net structure



(c) Conditional probabilities

$$P(g(B) = M) = .55$$

$$P(F(A,B) = T) = .1$$

$$P(g(A) = W \mid g(B) = W, F(A,B) = T) = .55$$

$$P(g(A) = M \mid g(B) = M, F(A,B) = T) = .63$$

$$P(g(A) = M \mid g(B) = M, F(A,B) = F) = .55$$

$$P(g(A) = W \mid g(B) = W, F(A,B) = F) = .45$$

$$P(cd(A) = T \mid g(A) = M) = .6$$

$$P(cd(A) = T \mid g(A) = W) = .8$$

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