

$$P \wedge Q$$

$$P(a) \wedge Q(a)$$

$$I(p) = \begin{cases} 1 \hat{=} \text{true} \\ 0 \hat{=} \text{false} \end{cases}$$

↙ 0-true
↘ 1-true

$$I(\text{country}) = \{ (\text{germany}), (\text{france}), \dots \}$$

Nov 2-10:04

name
 aller Länder, so daß sie die Ort, in der c liegt
 ist, ihren Sitz in der Hauptstadt von c hat.

$$Q(n) = \exists cap: \text{country}(c) \wedge \text{name}(c, n) \wedge \text{capital}(c, cap) \\ \exists o: \text{obj}(o) \wedge \text{isMember}(c, o) \wedge \text{hq}(o, cap)$$

Details:

$$Q(N) :- \text{country}(C) \wedge \text{name}(C, N) \wedge \text{capital}(C, Cap) \\ \wedge \text{obj}(O) \wedge \text{isMember}(C, O) \wedge \text{hq}(O, Cap)$$

$$Q(C) :- \text{country}(C)$$

Answers: { Germany, France, Berlin, ... } = I(country)

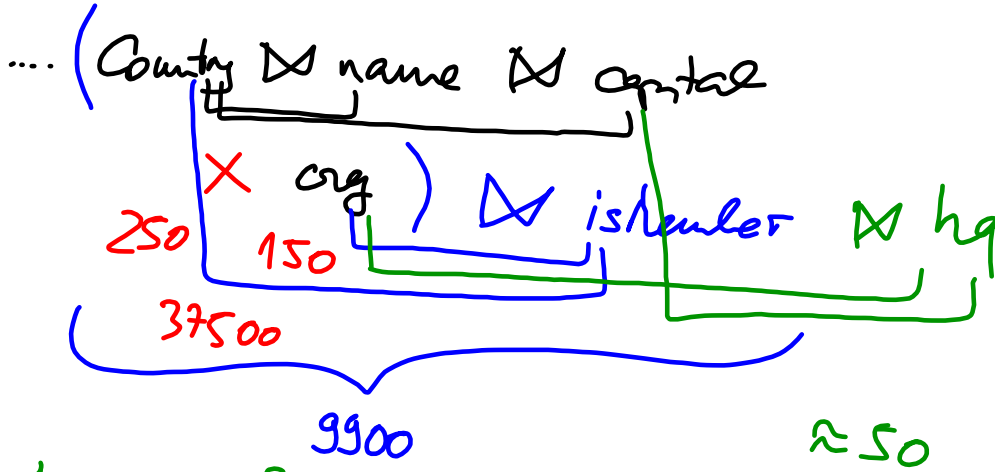
$$Q(C, N) :- \text{country}(C) \wedge \text{name}(C, N)$$

$$\rightarrow \{ (Germany, N("Germany")), (\dots), \dots \}$$

| country | name |
|---------|---------|
| germany | Germany |
| france | Berlin |
| ... | ... |

= Country to name

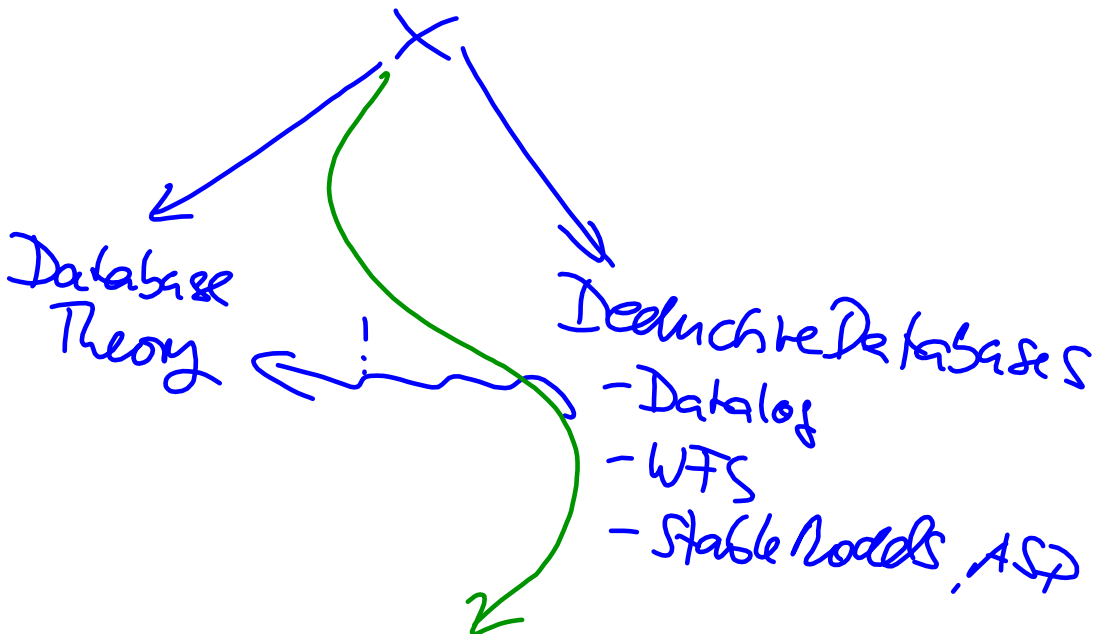
Nov 2-10:39



And what is Δ { (C/Belgium, N/Belgium, Cap/Bussels, O/ew), ... () }

$\Pi[N] \rightsquigarrow \{ N/Belgium, N/USA, \dots \}$

Nov 2-10:47



Nov 2-11:20