

⑥ Association rules

- ① $\text{airborne} = \text{false} \Rightarrow \text{feathers} = \text{false}$
- ② $\text{tail} = \text{true} \Rightarrow \text{backbone} = \text{true}$
- ③ $\text{breathes} = \text{true} \Rightarrow \text{fins} = \text{false}$
- ④ $\text{airborne} = \text{false} \Rightarrow \text{venomous} = \text{false}$
- ⑤ $\text{fins} = \text{false} \Rightarrow \text{venomous} = \text{false}$
- ⑥ $\text{domestic} = \text{false} \Rightarrow \text{venomous} = \text{false}$

From ③ & ⑤

- ⑦ $\text{breathes} = \text{true}, \text{fins} = \text{false} \Rightarrow \text{venomous} = \text{false}$
- ⑧ $\text{backbone} = \text{true}, \text{tail} = \text{true} \Rightarrow \text{venomous} = \text{false}$
- ⑨ $\text{type} = \text{invertebrate} \Rightarrow \text{backbone} = \text{false}$
- ⑩ $\text{type} = \text{amphibian} \Rightarrow \text{name} = \text{frog}$
- ⑪ $\text{type} = \text{fish} \Rightarrow \text{aquatic} = \text{true}$