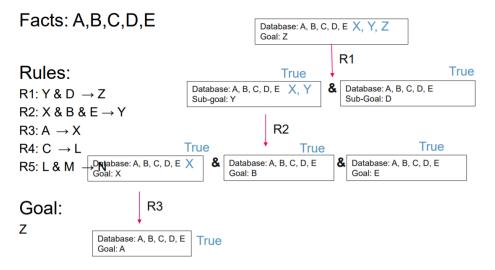
## **Backward Chaining: Steps**

Input: Goal, set of rules, set of facts.

- Check whether the goal is met (known) by the given facts. If yes, return TRUE.
- 2. For each rule
  - a) Check whether goal matches a consequent.
  - Recursion: If yes, set all sub-clauses in the antecedent as subgoals and start recursion - Repeat from 1 for each sub-goal.
    - Return TRUE when the combination of recursive results leads to positive evaluation of (sub-)goal.
- 3. Return FALSE no explanation has been found, the goal has not been met

## Backward Chaining Example in Propositional Logic



[[Rules-Based System]]