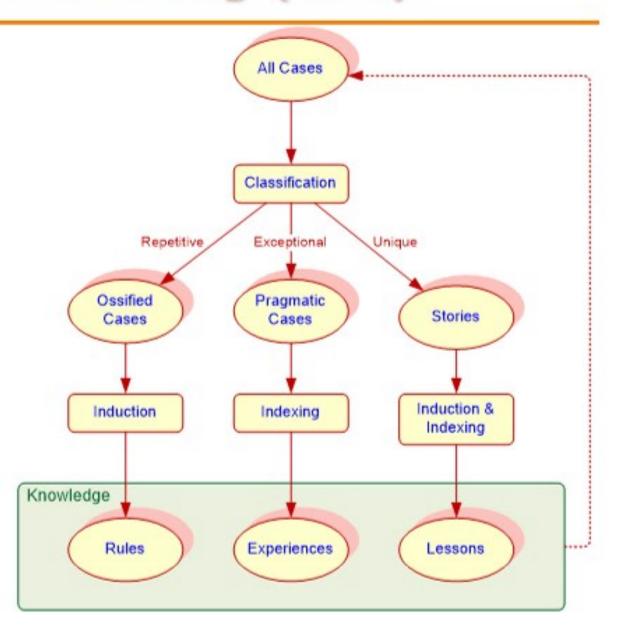


## Case-Based Reasoning (CBR)

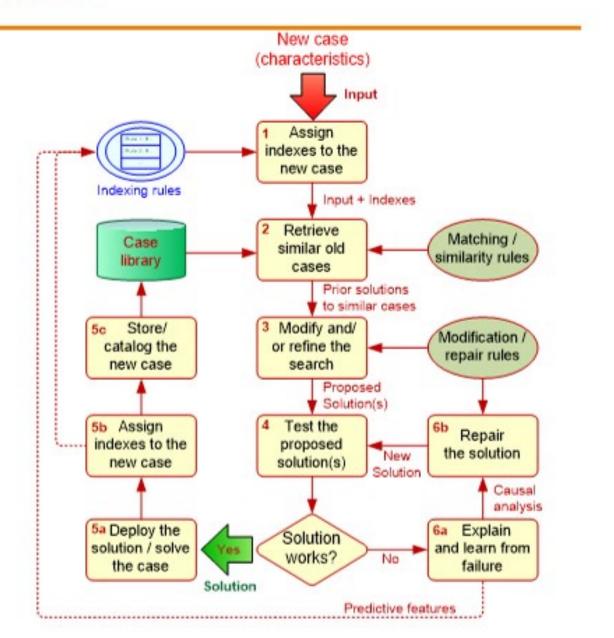
CBR is based on the premise that new problems are often similar to previously encountered problems, and, therefore, past successful solutions may be of use in solving the current situation





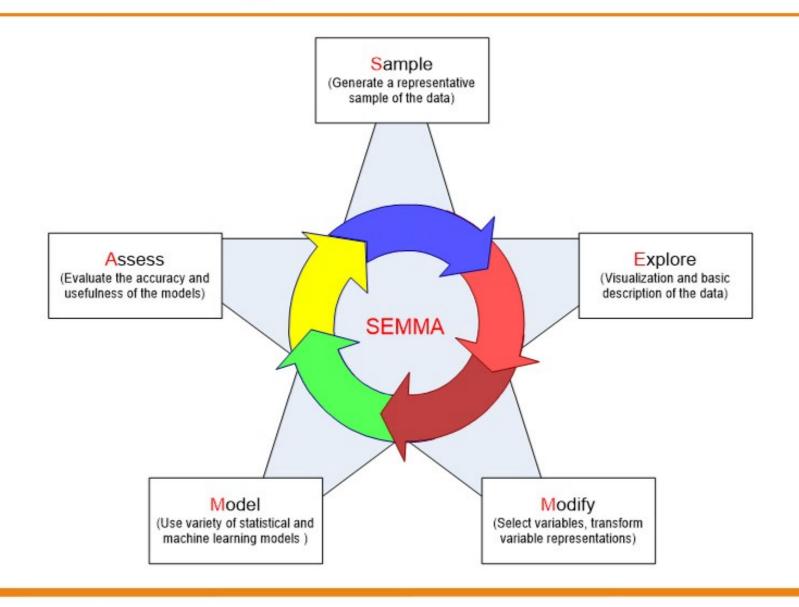
#### The CBR Process

- The CBR Process (4R)
  - Retrieve
  - Reuse
  - Revise
  - Retain (case library)



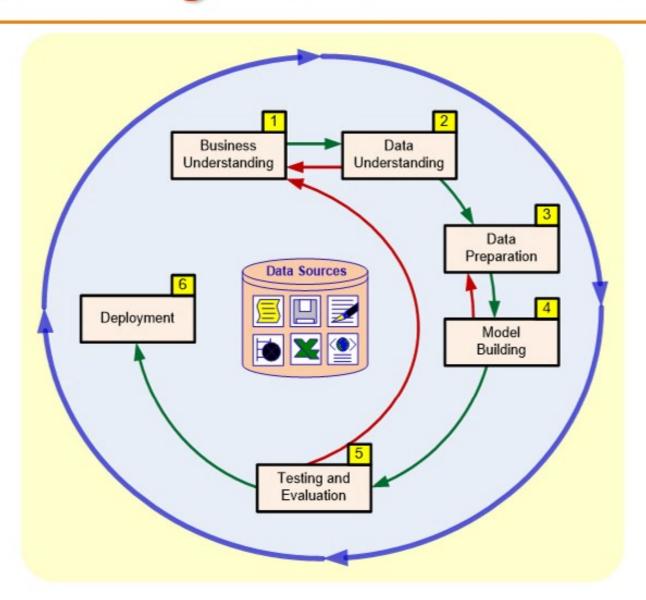


# Data Mining Process: SEMMA



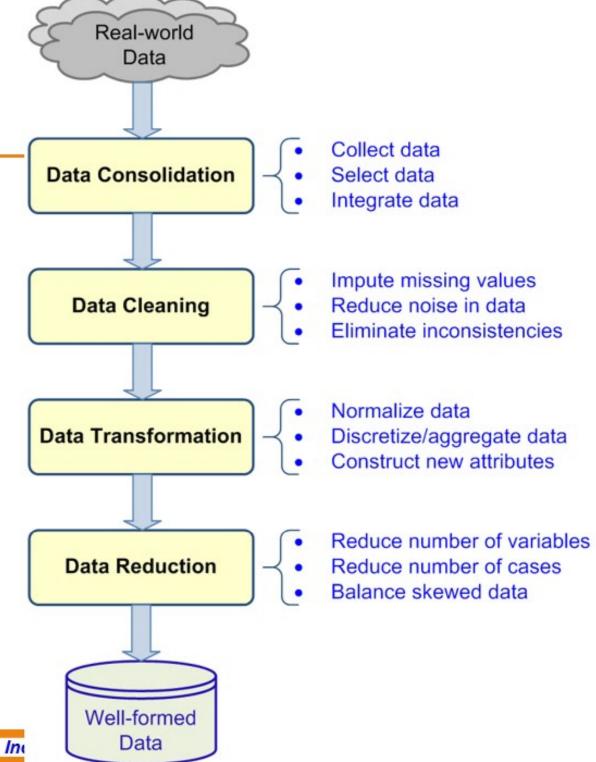


# Data Mining Process: CRISP-DM

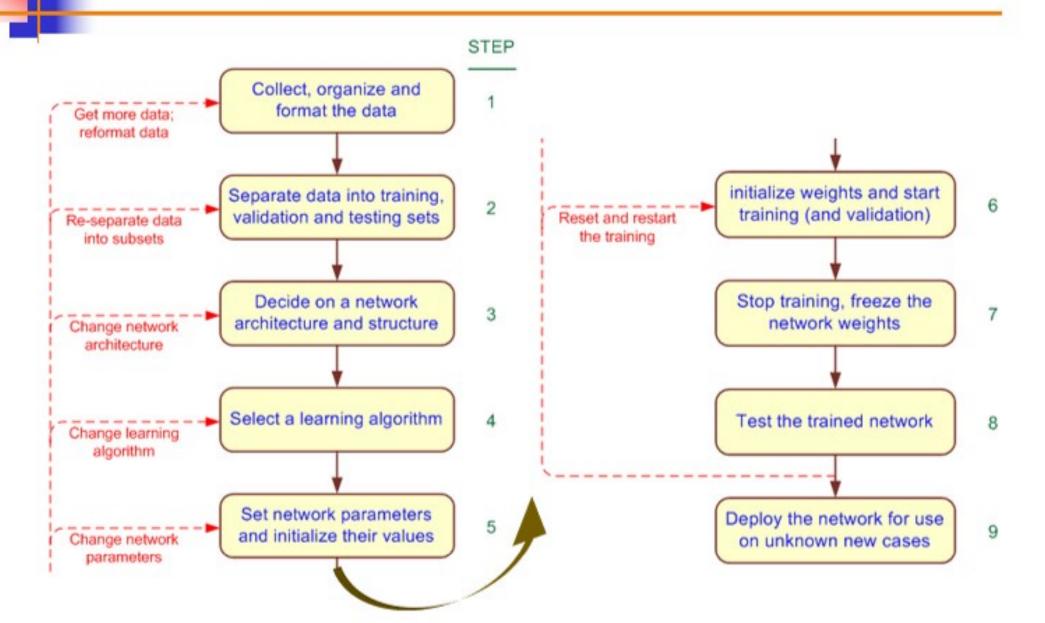


# Data Preparation

A Critical DM Task

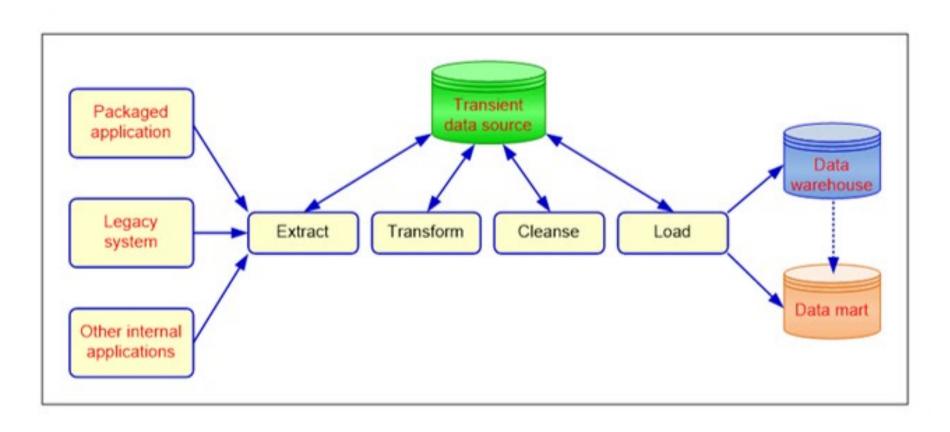


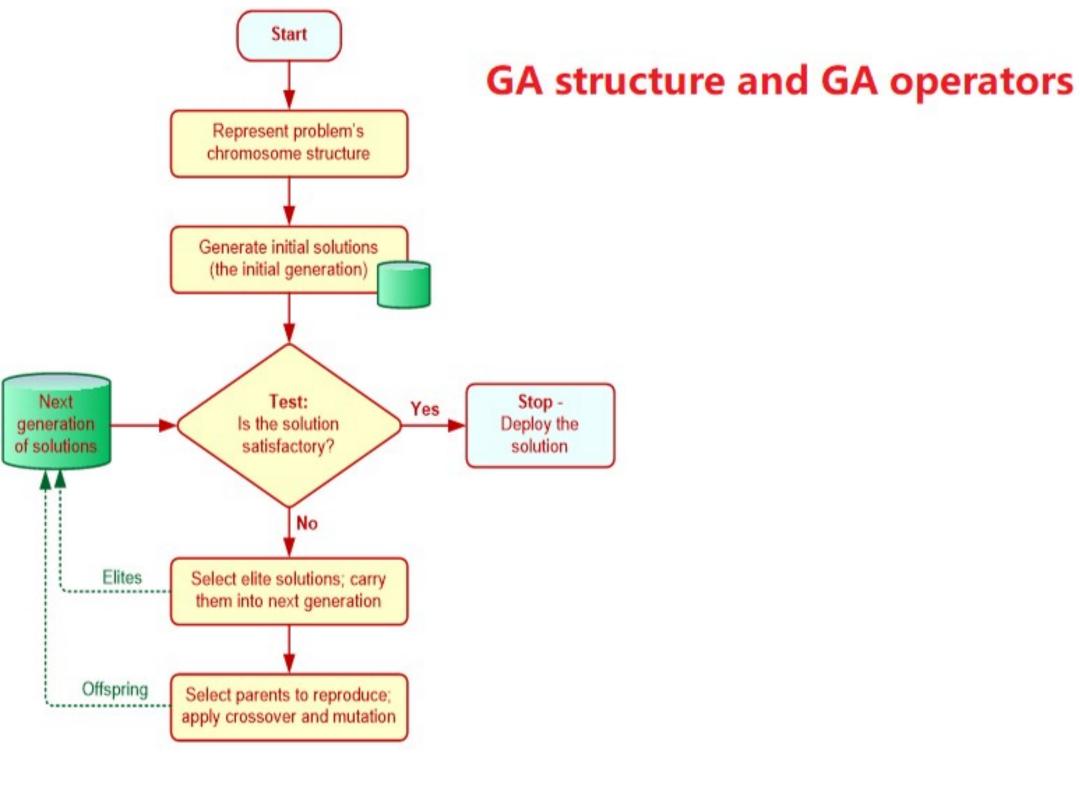
### Development Process of an ANN





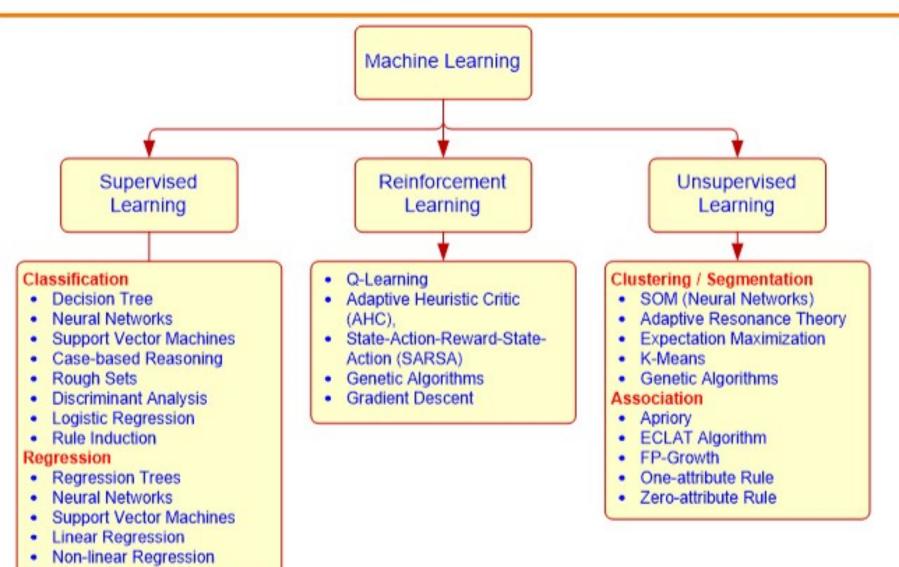
#### Data Integration and the Extraction, Transformation, and Load Process





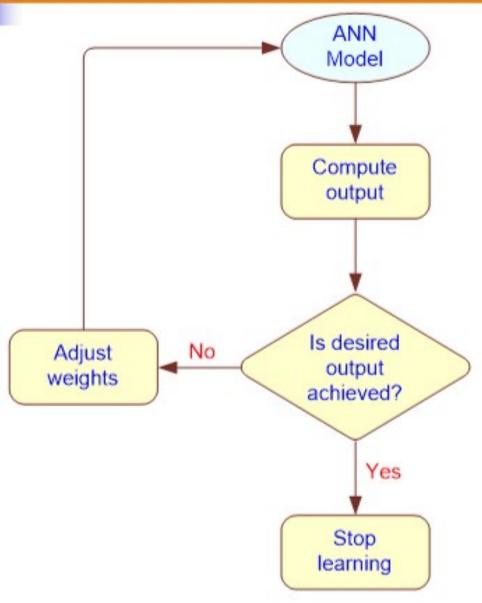


Bayesian Linear Regression



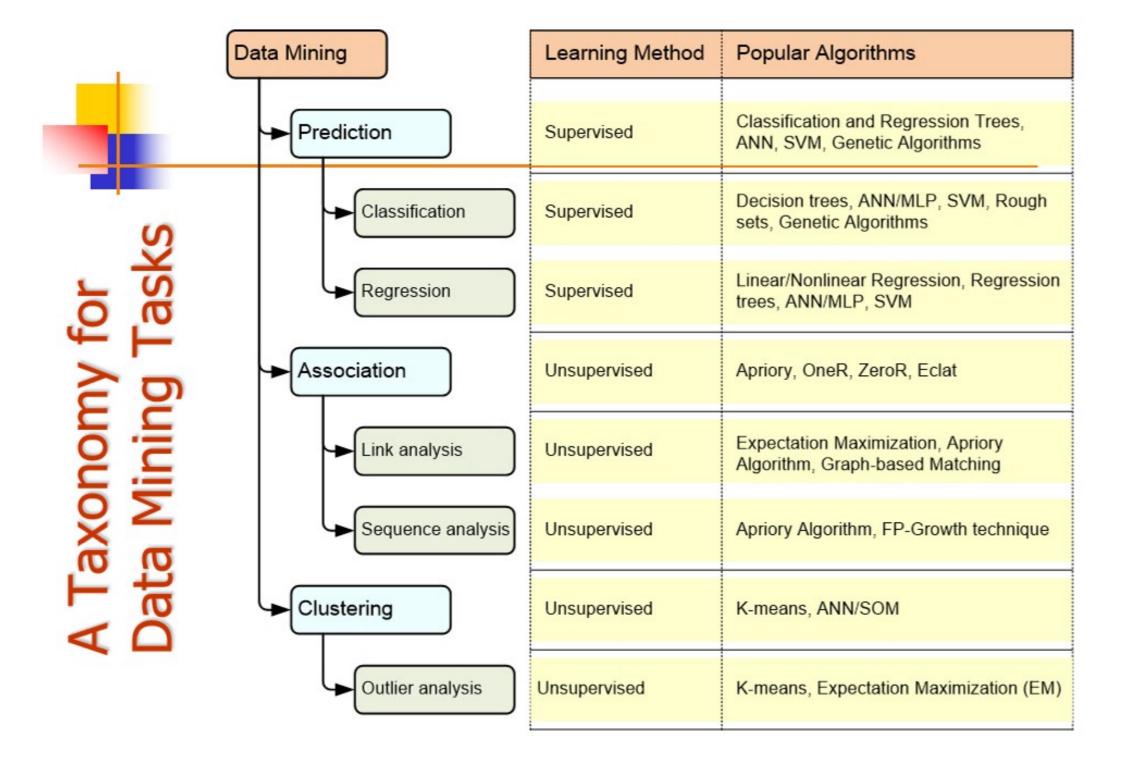


### A Supervised Learning Process



#### Three-step process:

- Compute temporary outputs
- Compare outputs with desired targets
- Adjust the weights and repeat the process





# A Web-Based DW Architecture

