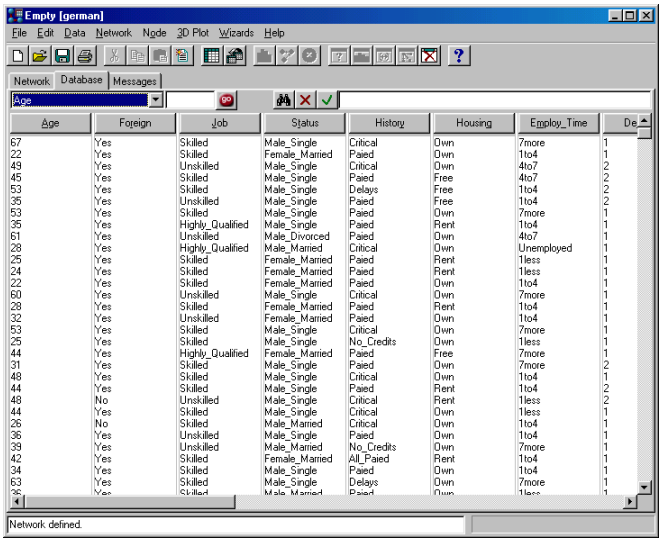
Bayesware™ Discoverer

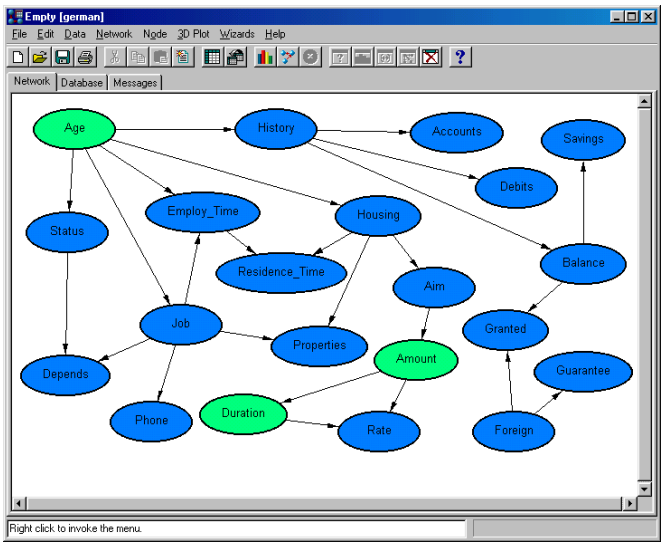
Knowledge Discovery using Bayesian Networks

Bayesware Discoverer

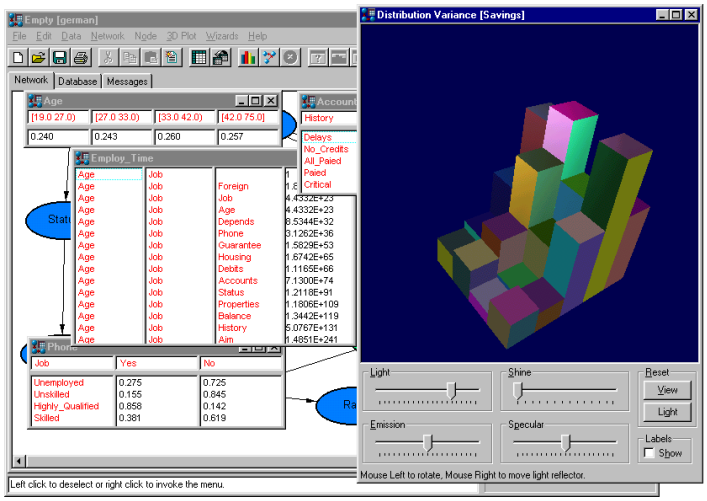
Bayesware Discoverer is a program able to automatically discover causal probabilistic models from databases using Bayesian networks. Watch the easy four-step knowledge discovery process. For more information, visit our website at www.bayesware.com*, or send an email to* discoverer@bayesware.com**.**



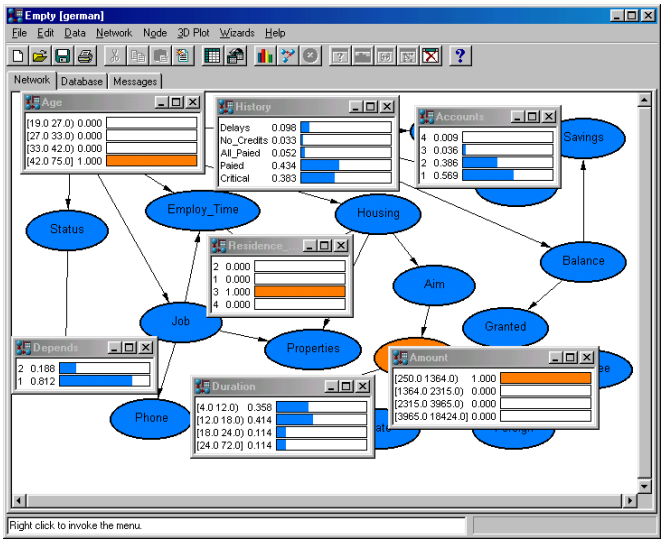
Step 1: Bayesware Discoverer is supplied with a database of 1000 customers of a German bank applying for a loan. The database reports, for each customer, twenty-one values, such as Age, Marital Status, Credit History, and the outcome of the loan application.



Step 2: Bayesware Discoverer automatically defines the variable, extracts a graph of dependencies, and quantifies the dependencies as probability distributions.



Step 3: Bayesware Discoverer can be used to explore various aspects of the extracted model, such as the probability distributions, variance, and likelihood of each dependency. Advanced interactive 3D graphics supports the visualization of complex interactions.



Step 4: The network is a self-contained decision support system that can be used to predict, explain, and simulate different scenarios. In this example, the system profiles the credit history and the chances of obtaining the loan for a married male working for more than seven years in a highly skilled capacity.