Expert Systems

Pattern matching is the basic technology underlying expert systems—programs that can make humanlike decisions, especially reasoning under conditions of uncertainty. Expert systems are also useful in helping experts work out a process, such as medical diagnosis. Once the process is distilled into rules, the logic can be incorporated into the standard programming environment or delivered as graphical decision diagram.

As an example of how pattern matching technology can be applied to Knowledge Management, consider the system illustrated in Exhibit 5.4. In this rule-based expert system, DecisionPro, by Vanguard Software,

EXHIBIT 5.4

Source: Used with permission. DecisionPro™, Vanguard Software Corporation, www.vanguardsw.com.