

Data Flow Diagram (DFD)

Figure 5-3 Data Flow Diagram symbols, symbol names, and examples of the Gane and Sarson and Yourdon symbol sets.

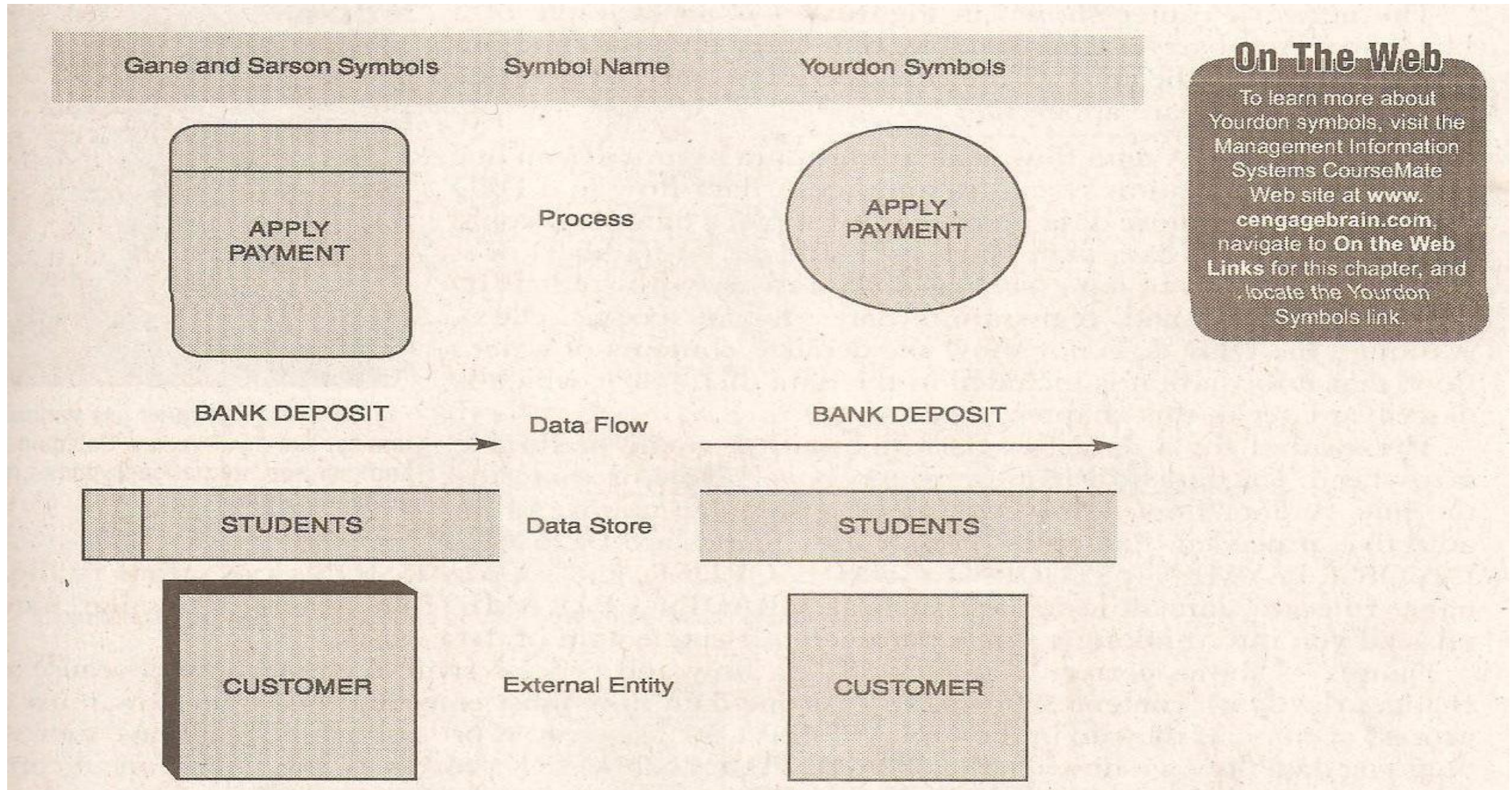


Figure 5-5 example of correct combinations of data flow and process symbols.

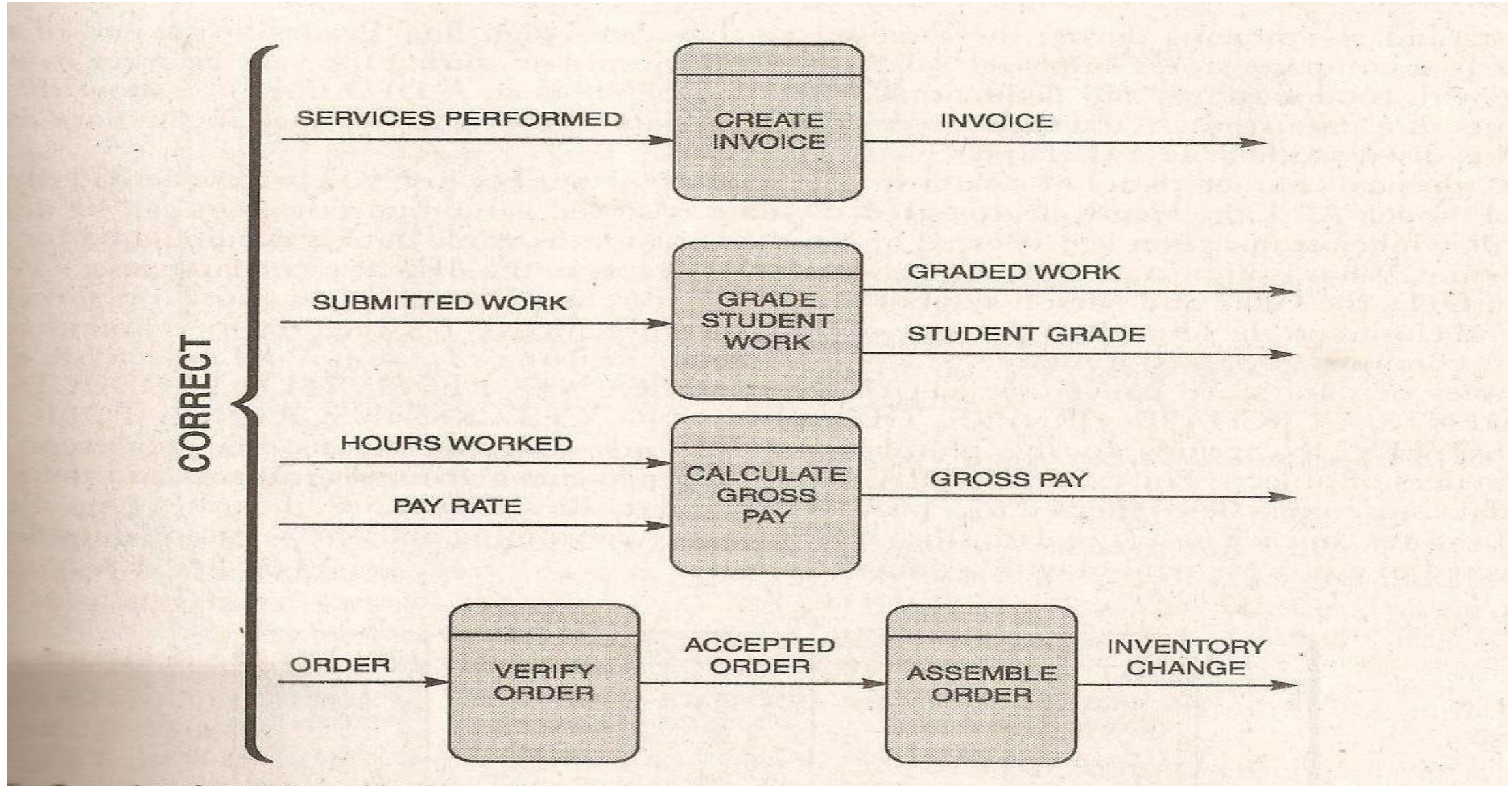
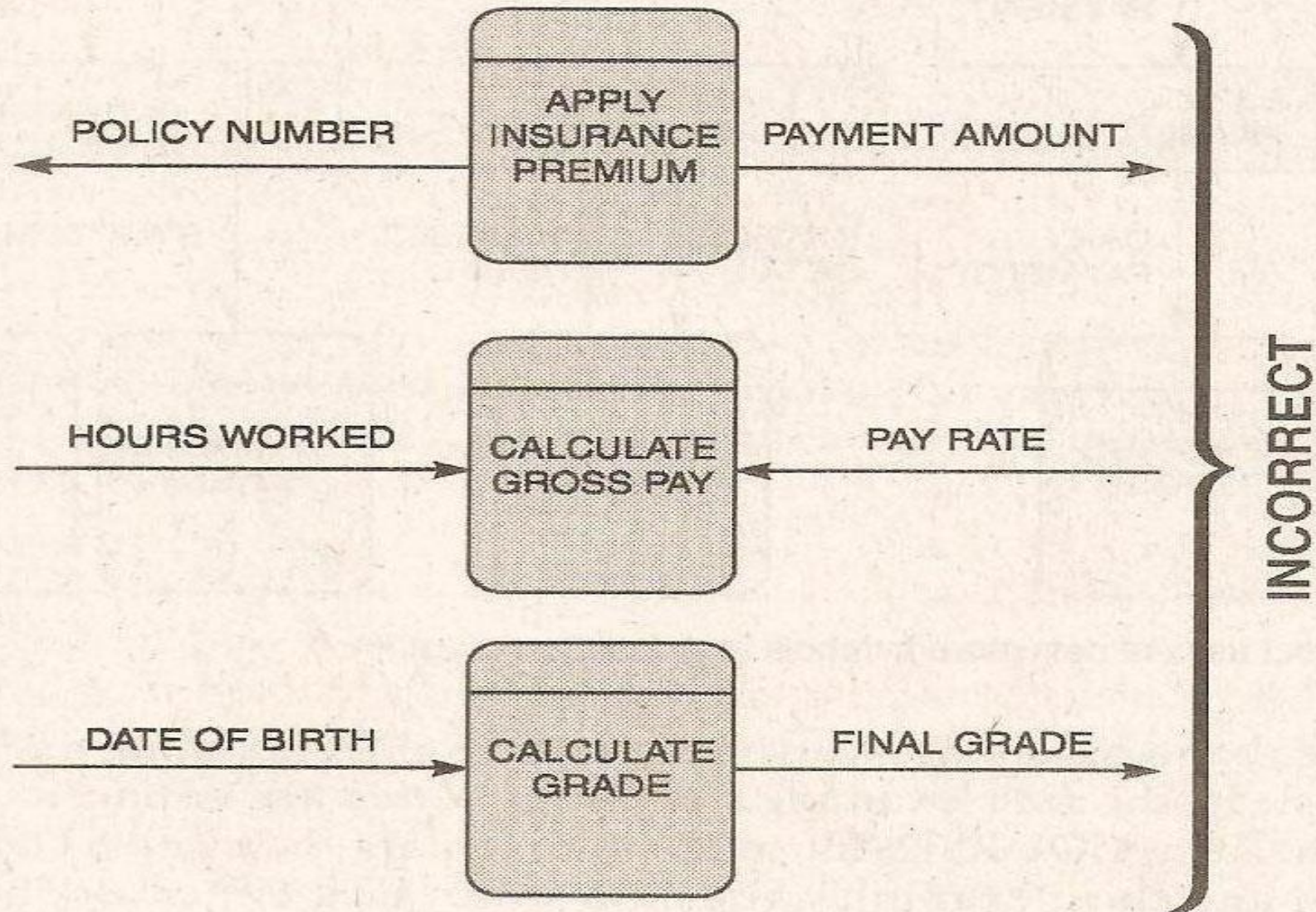


Figure 5-6 Example of incorrect combination of data flow and process symbols



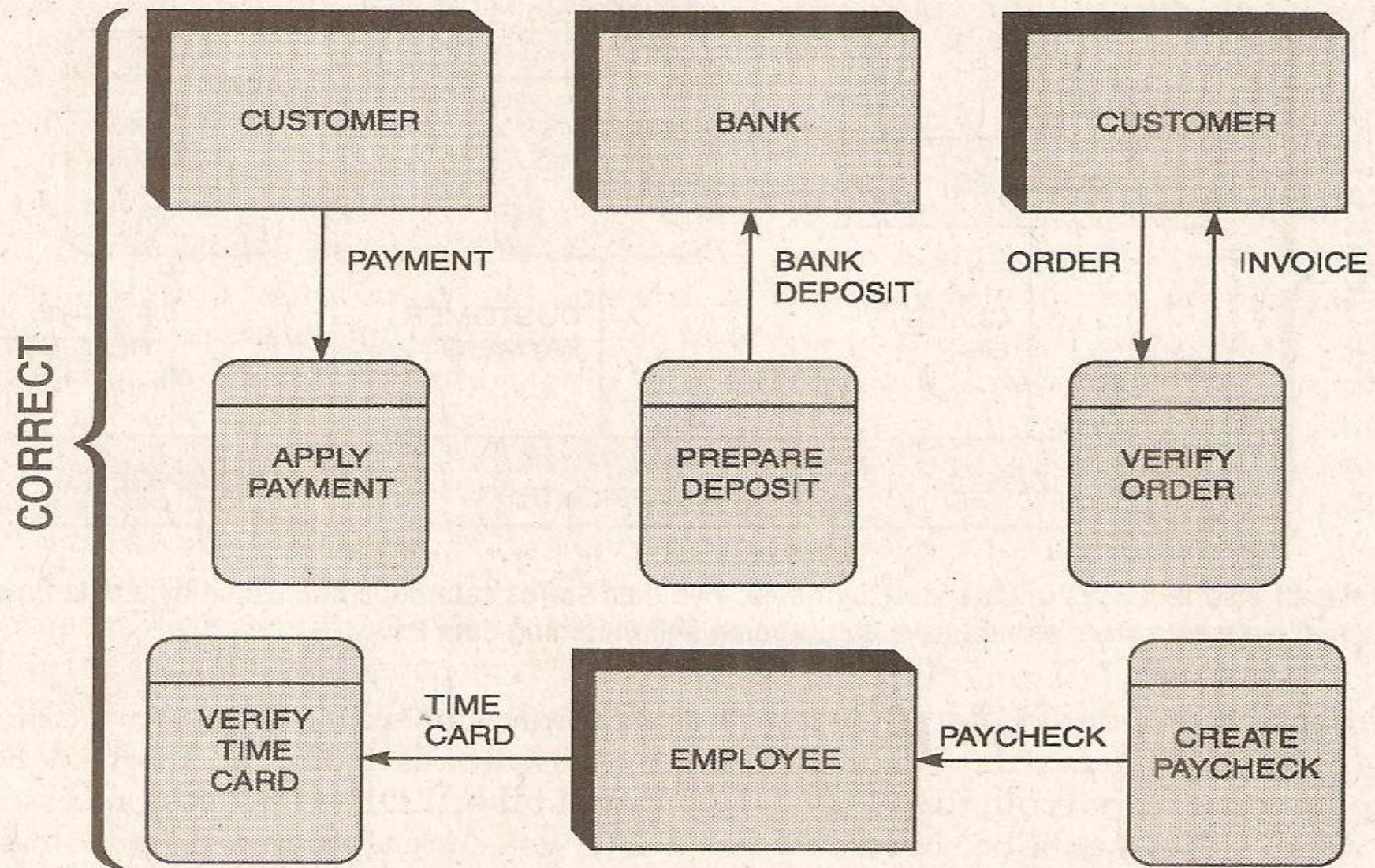


Figure 5-9 Examples of correct uses of external entities in a data flow diagram.

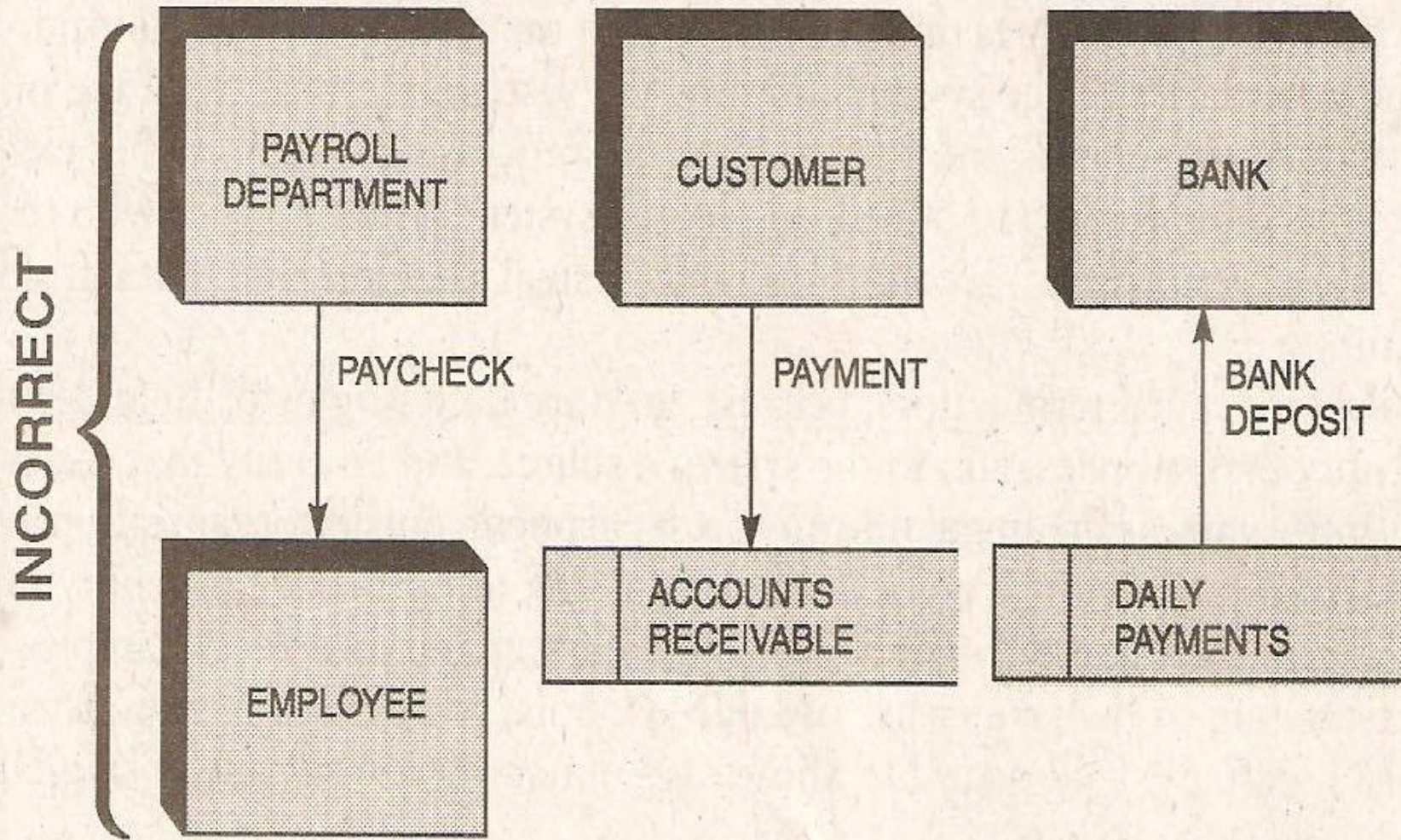


Figure 5-10 Examples of incorrect uses of external entities. An external entity must be connected by a data flow to a process, and not directly to a data store or to another external entity.

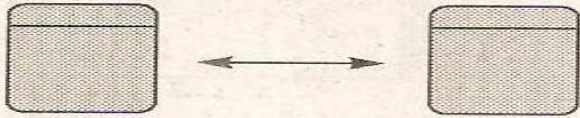




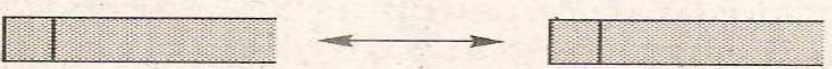
Correct and Incorrect Examples of Data Flows		
	Process to Process	✓
	Process to External Entity	✓
	Process to Data Store	✓
	External Entity to External Entity	✗
	External Entity to Data Store	✗
	Data Store to Data Store	✗

Figure 5-11 Examples of correct and incorrect uses of data flows.

Guidelines for Drawing DFDs

- Draw the context diagram so it fits on one page.
- Use the name of the information system as the process name in the context diagram.
- Use unique names within each set of symbols.
- Do not cross the lines. One way to achieve that goal is to restrict the number of symbols in any DFD.
- Provide a unique name and reference number for each process.
- Obtain as much user input and feedback as possible.

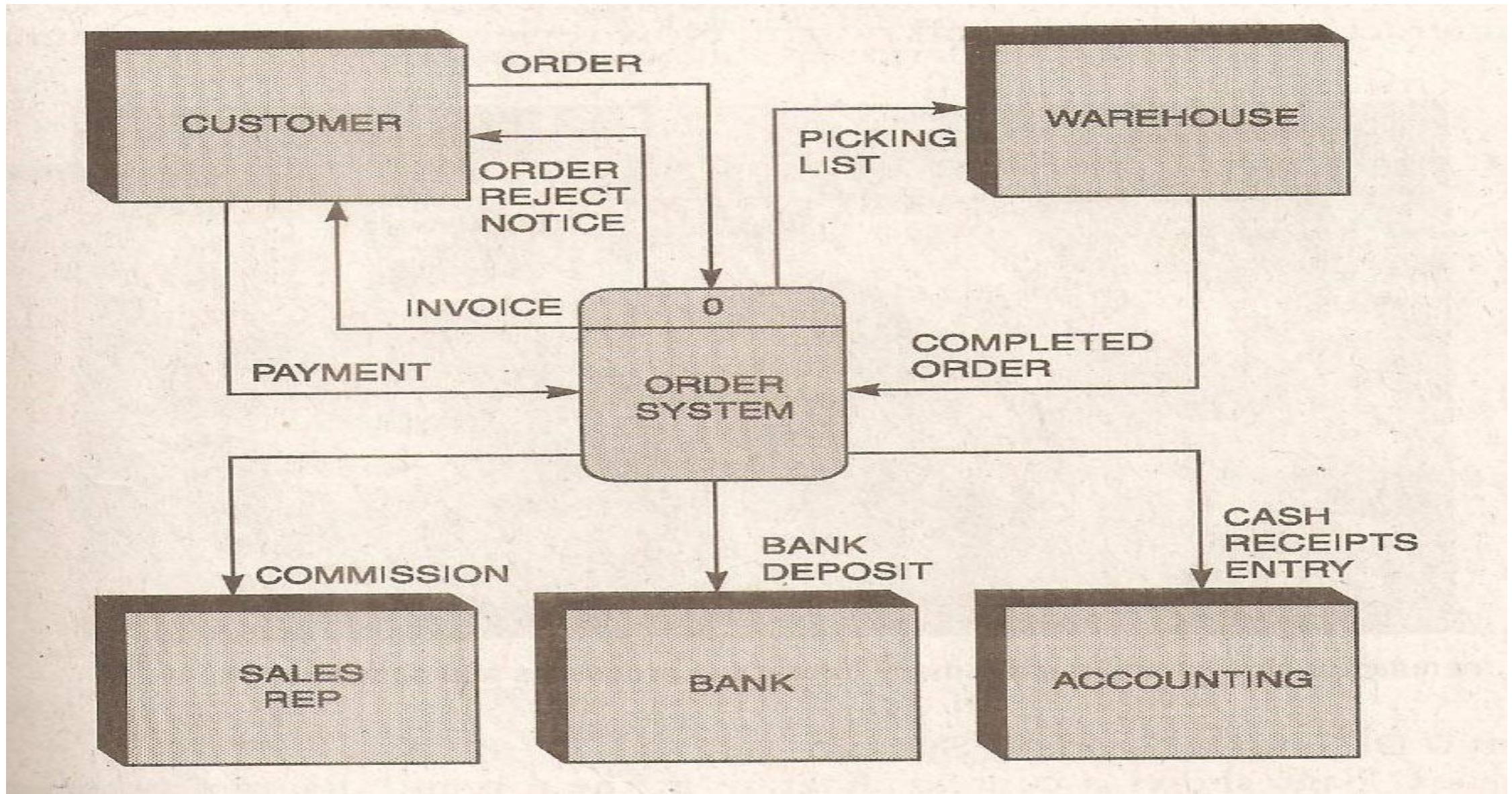


Figure 5-13 Context diagram DFD for an order system.

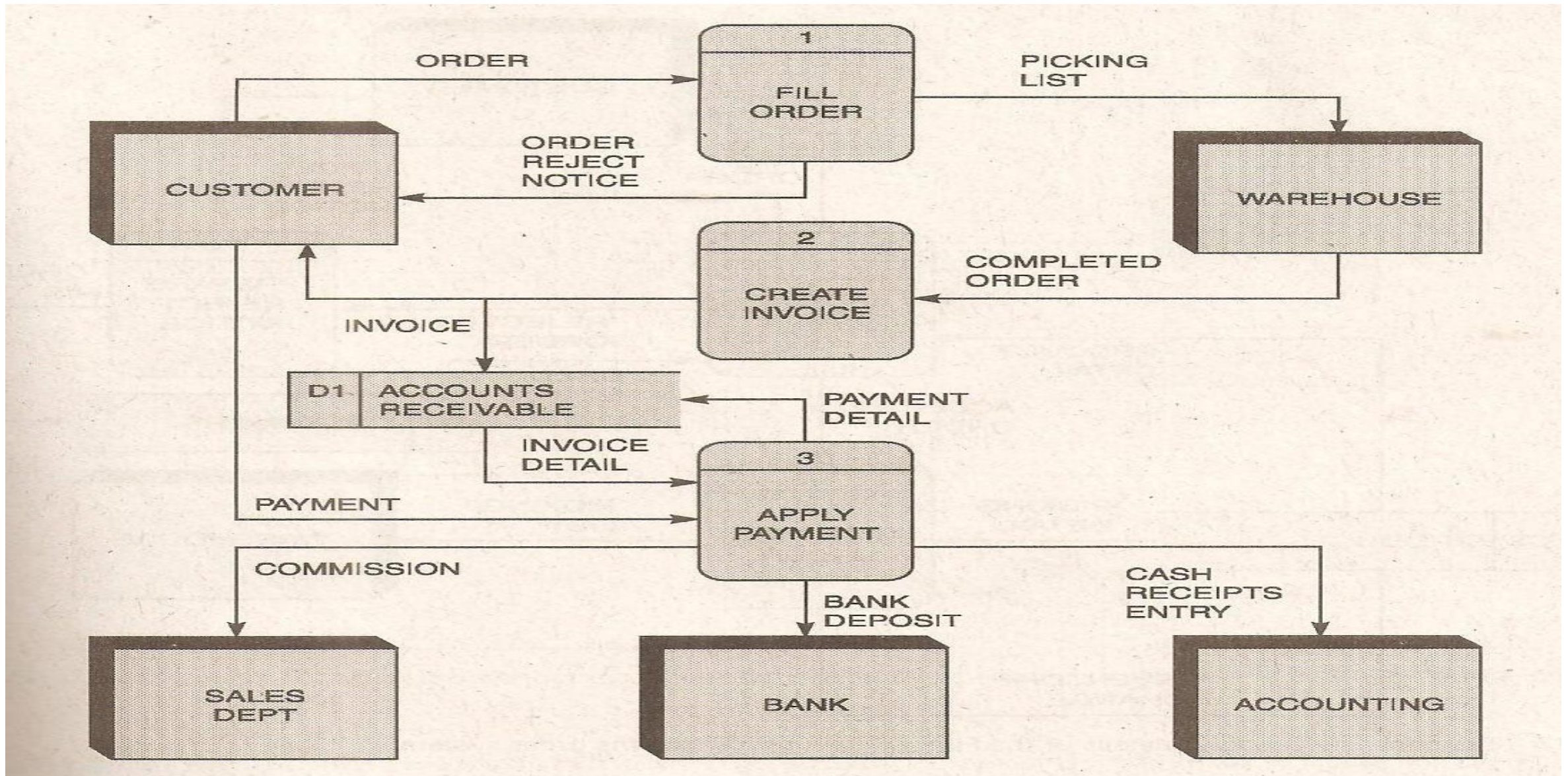


Figure 5-16 Diagram 0 DFD for the order system

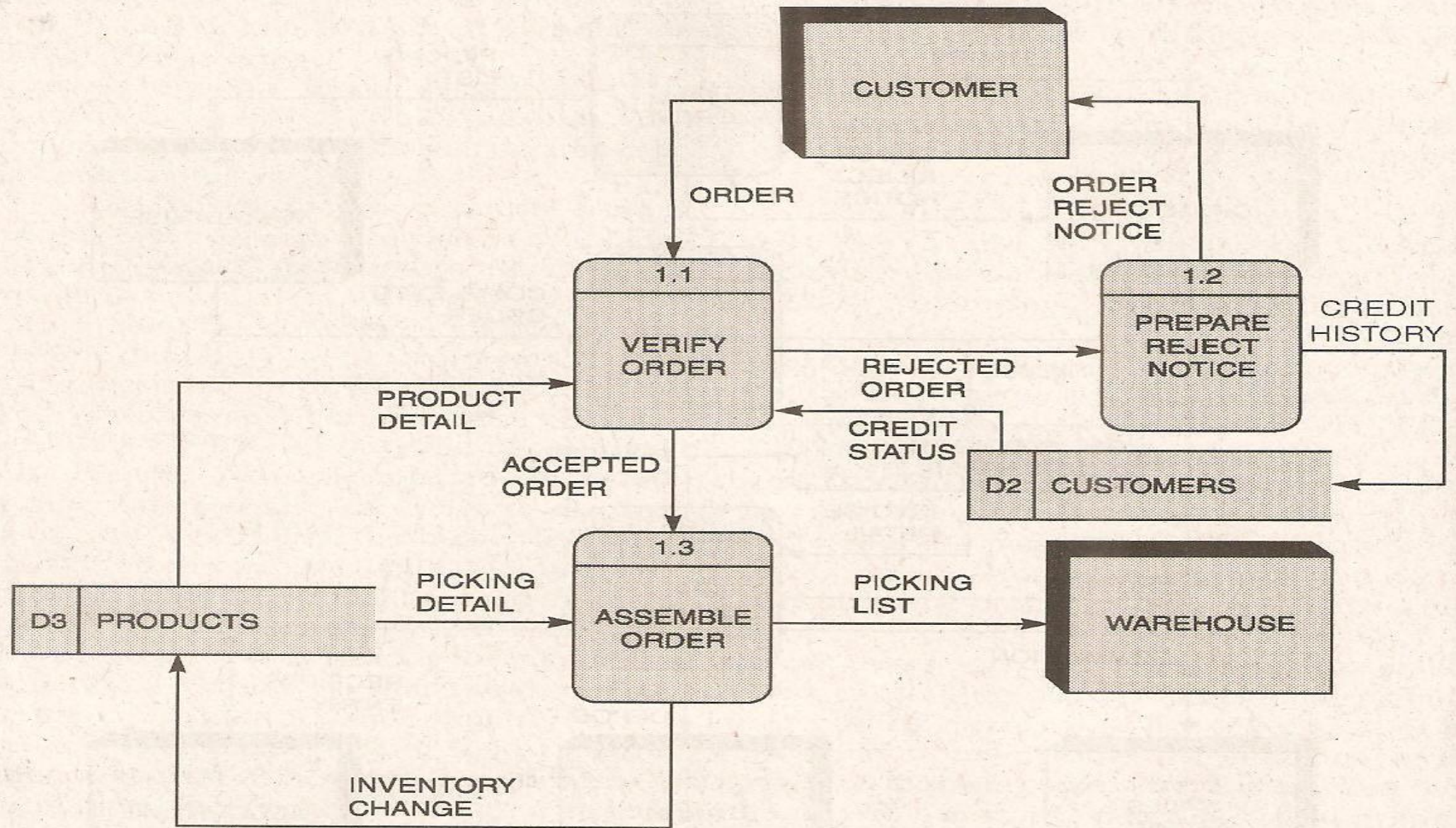


Figure 5-17 Diagram 1 DFD shows details of the FILL ORDER process in the order system.

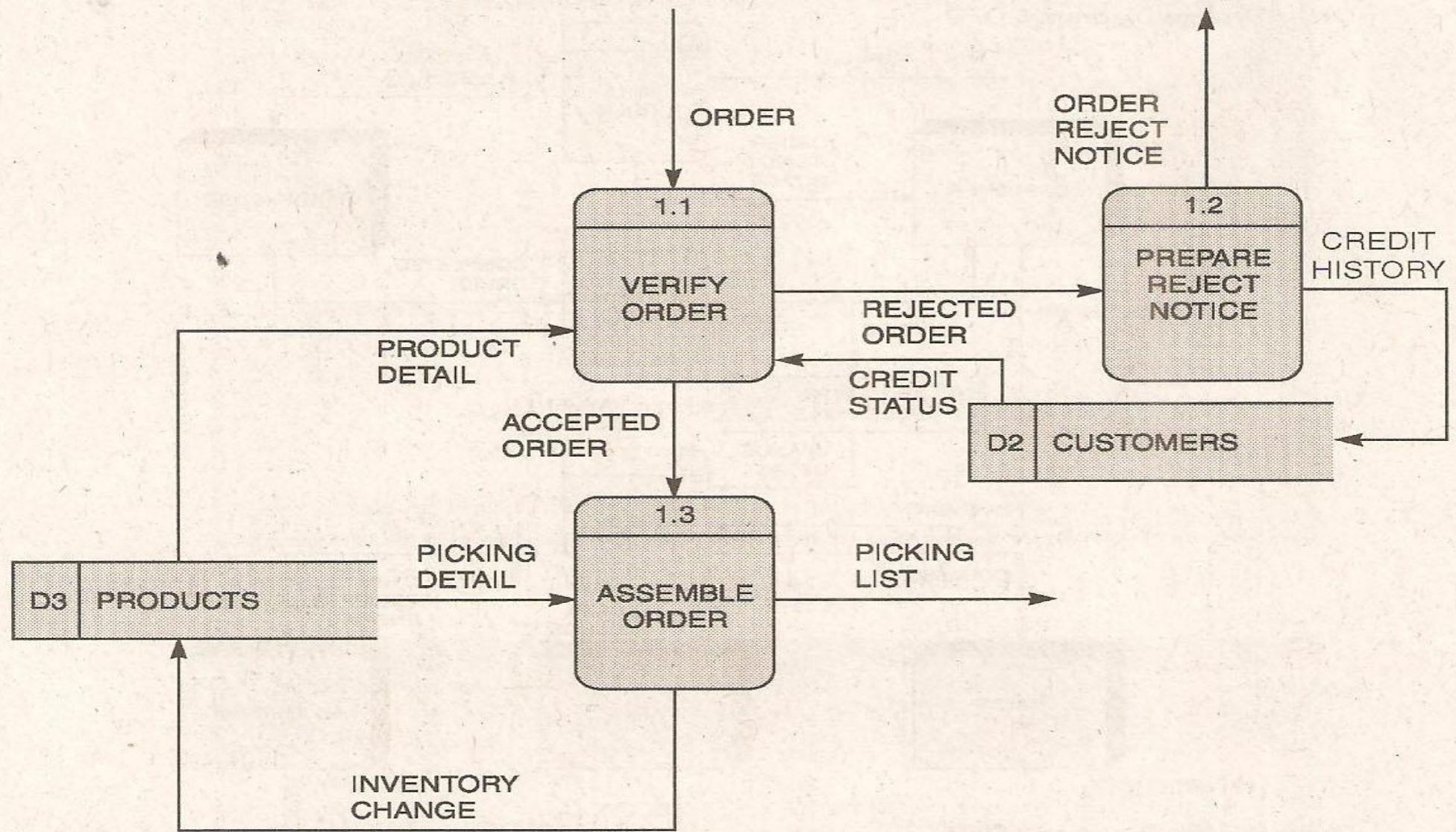


Figure 5-18 This diagram does not show the symbols that connect to data flows entering or leaving FILL ORDER on the context diagram.