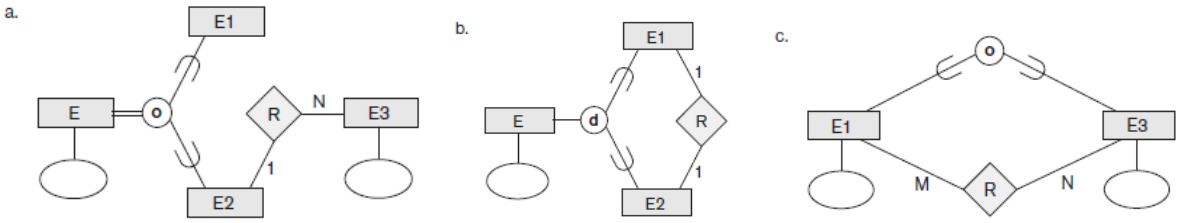
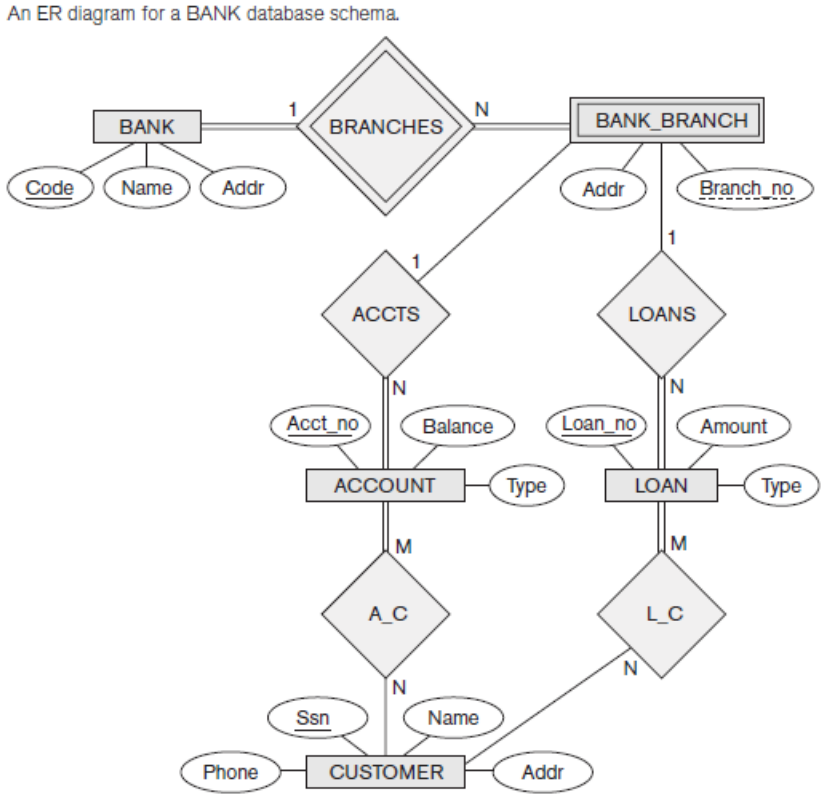
# EER Diagrams Exercises

**Exercise 4.26**

Which of the following EER diagram(s) is/are incorrect and why? State clearly any assumptions you make.




**Exercise 4.17**

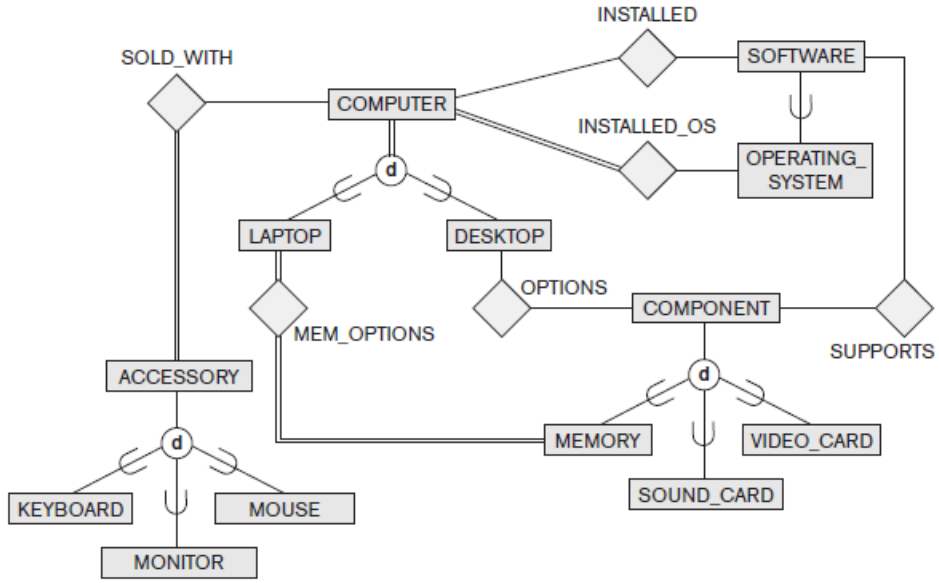



Consider the BANK ER schema of the above figure (Figure 7.21), and suppose that it is necessary to keep track of different types of ACCOUNTS (SAVINGS_ACCTS, CHECKING_ACCTS,...) and LOANS (CAR_LOANS, HOME_LOANS, ...). Suppose that it is also desirable to keep track of each account's TRANSACTIONs (deposits, withdrawals, checks, ...) and each loan's PAYMENTs; both of these include the amount, date, time, ...

Modify the BANK schema, using ER and EER concepts of specialization and generalization. State any assumptions you make about the additional requirements.

**Exercise 4.27**

Consider the following EER diagram that describes computer systems at a company. Provide your own attributes **(considering inheritance)** and key for each entity type. Supply max cardinality constraints justifying your choice. Write a complete narrative description of what this EER diagram represents.




**Exercise.** Consider the EER diagram below. Extract from this model the requirements and constraints that produced this schema. Try to be as precise as possible in your requirements and constraints specification. Empsasise the attributes inherited from superclasses.

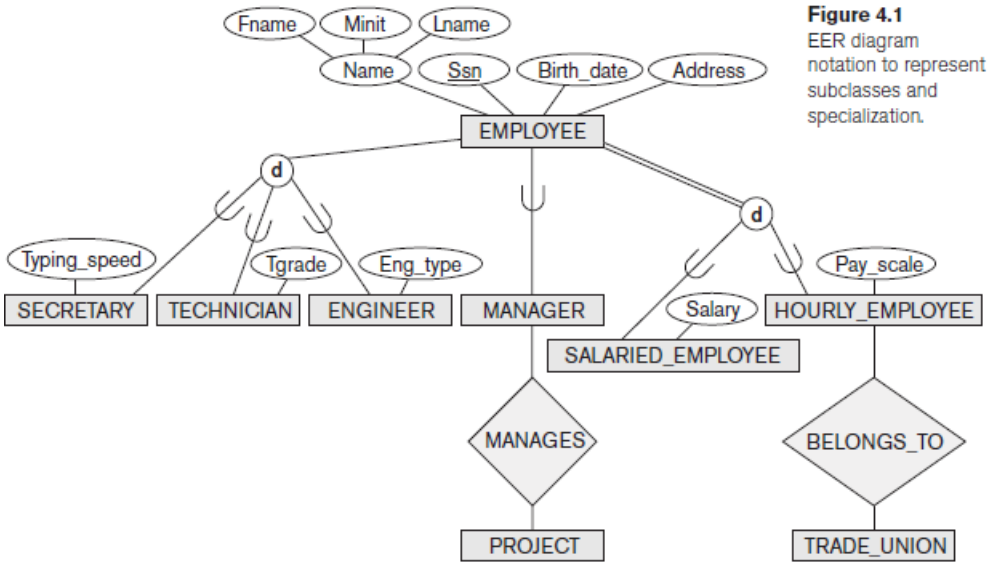



**Figure 4.1**
EER diagram notation to represent subclasses and specialization.