

- d How many products are there in an order line?
 - e What is the relationship between a CD and a product?
 - f Can a product appear on more than one order line?
- 5.9 This exercise will help you to construct a class diagram. Build up the diagram by drawing the separate parts according to the information given below.
- a A football club has two grounds.
 - b Each ground consists of two or three pitches and a clubhouse.
 - c The football club has lots of members.
 - d A member may be a playing member or a social member, and a playing member may be an adult member or a junior member.
 - e A playing member may be chosen to play for one or more teams, and each team has 11 playing members.
 - f Each team plays a number of fixtures.
- 5.10 A large film organization has several cinemas, which each consists of up to ten separate screens. Filmgoers can book seats in person, by phone or on the Internet. The organization keeps a record of the names and addresses of regular filmgoers for marketing purposes. Draw a class diagram to represent this information.
- 5.11 a The Keep Well Medical Centre is run by five doctors with three practice nurses. When a patient calls for an appointment, he or she usually sees the same doctor, but at busy times patients may see any of the doctors or nurses. Once a patient has been seen by the doctor or nurse, the medical records are updated and the doctor may also write out a prescription for the patient. Draw a class diagram to represent this information.
- b Sometimes the doctor considers that the patient needs further tests. These tests may be routine or intensive; they are carried out at one of the local hospitals. Extend the diagram that you drew for part (a) to include this extra information.
- 5.12 Study the class diagram in Figure 5.21 and answer the questions that follow it.