Table 5.1:	Data dictionary notation

Meaning	Symbol	Description	Example
consists of	=	introduces the definition of a data item	Customer =
and	+	joins components of the definition in sequence	Customer = name + address
one or more	{}	attributes may be repeated; any restrictions on number of repetitions are shown by a subscript	Customer = name + address + {phone} ₂
zero or one	()	attribute is optional	Customer = name + address + {phone} ₂ + (email)
alternatives	[]	selection is indicated by enclosing the alternatives in square brackets []	Name = [initial firstname] + surname
eitheror		alternatives for selection in [] are separated by a vertical bar	
specific value	<i>" "</i>	indicates specific values	"individual", "wholesale"
**	comment	comments are enclosed between asterisks	Customer = name + address + {phone} ₂ + (email) + ["individual" "wholesale"] *Wholesale customers are entitled to special discounts*

Initially definitions are written at a high level, simply listing the attributes of the class, but as development progresses more details are added, as shown below.

```
Customer = customerID + name + address + \{phone\}_2 + \{email\}_2
customerID = {digit}6 *A customer ID is a 6 digit number*
name = title + [initial | firstName] + surname
address = (houseName) + houseNumber + street + town + county
         + postcode
phone = areacode + number
email = *if customer has an email address*
```

You can see from this example that a data dictionary is structured in the same way as a standard language dictionary. We could have