

4

Databases

- talk about databases
- talk about data processing
- ask for and give advice
- talk about company departments

Database basics

Speaking 1 What database products do you know and use at work and at home?

Listening 2 Listen to two colleagues at a book company. Chris needs some information from the production database. Complete this dialogue.

Chris: Tim, (1)_____ you help me a moment, please?

Tim: Sure. What's the (2)_____?

Chris: I need some (3)_____ about a book budget from the database.

Tim: OK.

Chris: But I don't know how to (4)_____ it.

Tim: No problem.

Chris: So what do I do first?

Tim: Enter your name and (5)_____ and press enter.

Chris: Erm ... ?

Tim: You have got a password?

Chris: Erm, I can't (6)_____ it.

Tim: Use mine. Type in t evans, that's t - e - v - a - n - s, then snavet. s - n - a - v - e - t.

Chris: OK.

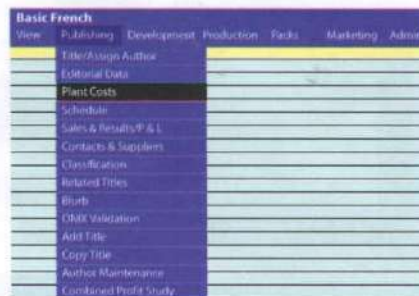
Tim: Now press Enter. Now what is the name of the book?

Chris: *Basic French*.

Tim: OK. Type in that in the title (7)_____ in the first (8)_____. Now press Find. There it is. OK, budget. Click (9)_____ Publishing and scroll down to Plant costs and click on that.

Chris: Good. There's the budget in the second row. Thanks, Tim.

Tim: No problem.



Project title	Basic French		
	Budget	Cost to date	Difference
Editorial	10 000	8 000	+2 000
Design	13 000	12 000	+1 000
Multimedia	5 000	0	+5 000
Freelance	7 000	1 000	+6 000
Marketing	5 000	6 000	-1 000
Summary		27 000	+13 000

Asking people to do things

We use **can/could/would you** + infinitive without *to* when we ask somebody to do something for us.

Could you help me, please?

Sure.

Please **could you help?**

No problem.

Can you explain what a database is, please?


I'm afraid I can't.

Please **can you explain what a database is?**

I'm sorry, I can't.

Would you explain that, please?

Could you come back a bit later? I'm busy right now.

3  24 Listen and repeat these questions.

- 1 Could you help me, please?
- 2 Please could you help me?
- 3 Would you help me with this software?
- 4 Please could you explain how to do that?
- 5 Please would you give me your password?

Speaking 4 Work in pairs. Student A: make questions from the prompts. Student B: answer *yes* or *no* and give a reason why not (if your answer is no).

Example: type/name

Could you type in your name, please?

- 1 open/window
- 2 turn up/air conditioning
- 3 turn down/mp3 player
- 4 give/you/pen
- 5 answer/phone
- 6 give/password

5 Work in pairs. Use the example of a database below to explain to your partner what a database is. Use these words: *store, access, get, fields, columns, rows*.

Example: *A database is used to ... This is a ...*

First Name	Last Name	Department	Title	Phone ext.
John	Smith	Development	Engineer	123
Jane	Doe	Finance	Auditor	454

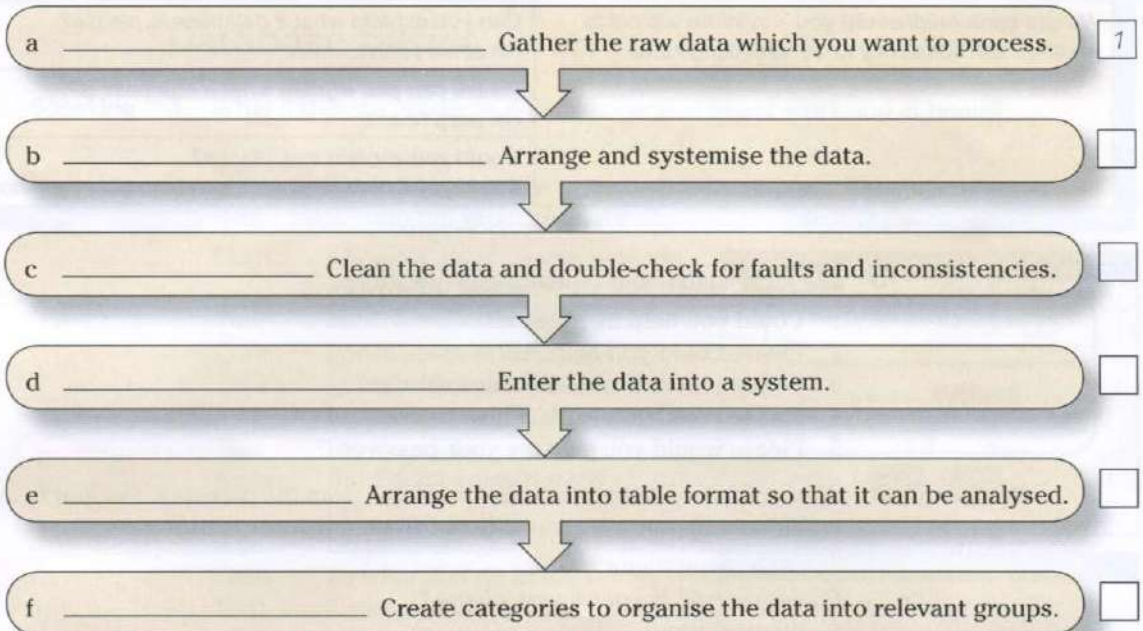
6 Why do people and organisations use databases? Discuss with the group.

Example: *They use databases to find out ...*


Data processing

Vocabulary 1 Match the headings in the box to the data processing steps a–f.

data coding data collection data entry data sorting
data tabulation data validation



2 Put the data processing steps in 1 into the correct order.

Listening 3  25 Listen to an IT expert describing the data processing steps to a colleague. Check your answers to 1 and 2.



4  26 Listen and mark the syllable stress in these nouns and verbs.

- | | |
|-----------------|-----------------|
| 1 <u>e</u> ntry | 7 gather |
| 2 collection | 8 create |
| 3 tabulation | 9 arrange |
| 4 validation | 10 enter |
| 5 sorting | 11 double-check |
| 6 coding | 12 format |

5 Listen again and repeat the words.

Vocabulary 6 Complete these sentences with the words in the box.

about at between for from in into of to

Example: This database is used to store our financial information.

- 1 What's the difference _____ a database and a spreadsheet?
- 2 A database is _____ storing data.
- 3 The school has information _____ students.
- 4 Can people access the system _____ the same time?
- 5 A database is a collection _____ records.
- 6 You retrieve information _____ the database.
- 7 You enter the data _____ the system.
- 8 Which software do you use _____ your work?

Language

Quick questions to check understanding

We use these when we are making sure the other person understands the statement.

*That's called collection. **OK?***

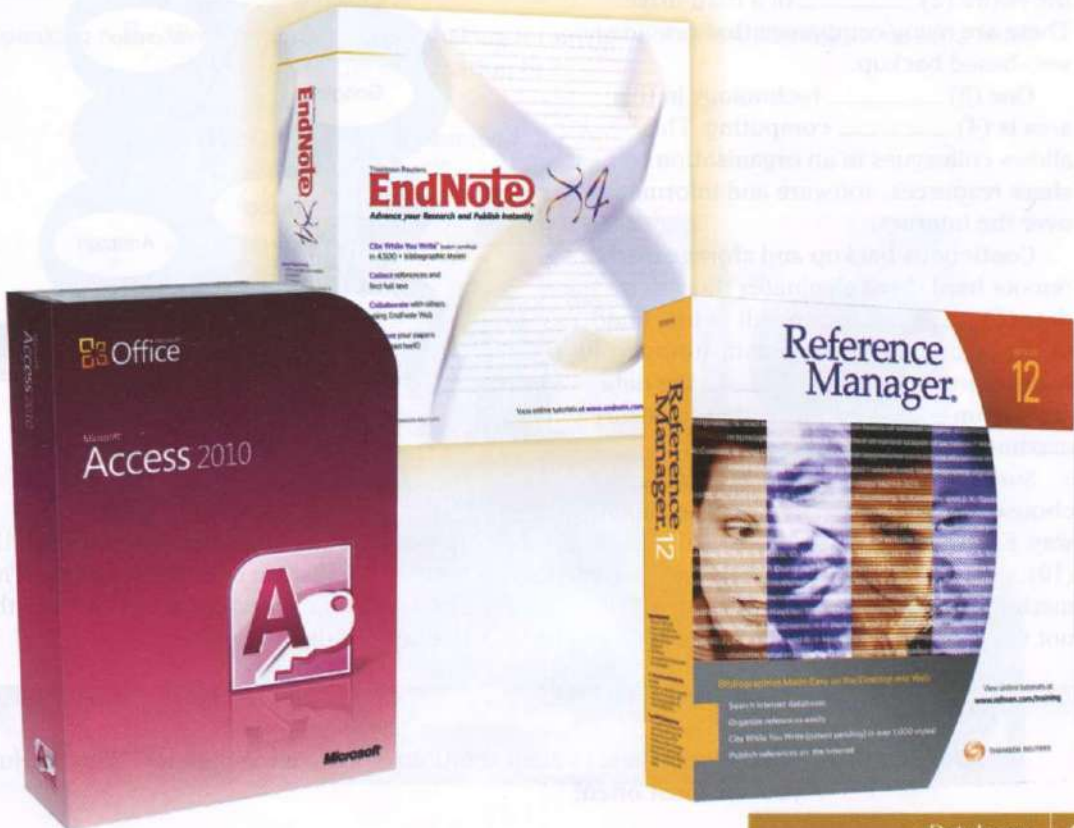
*That's coding? **Got that?***

*That's tabulation. **All right?***

*We call that sorting. **Understood?***

Speaking 7 Work in pairs. Explain the data processing steps from 1 in your own words.

8 Look at the examples of database software below. What database software do you know? What is it used for?



Data storage and backup

Vocabulary 1 Match the data storage and backup solutions in the box to pictures A–F. What other solutions are there?

external hard drive hard disk mp3 player server the Internet
usb flash drive



A



B



C



D



E



F

Reading 2 Read this article about data storage. Complete the sentences with the words in the box.

cloud contents emerging encrypt flash loss magnetic
offsite protect security theft volumes

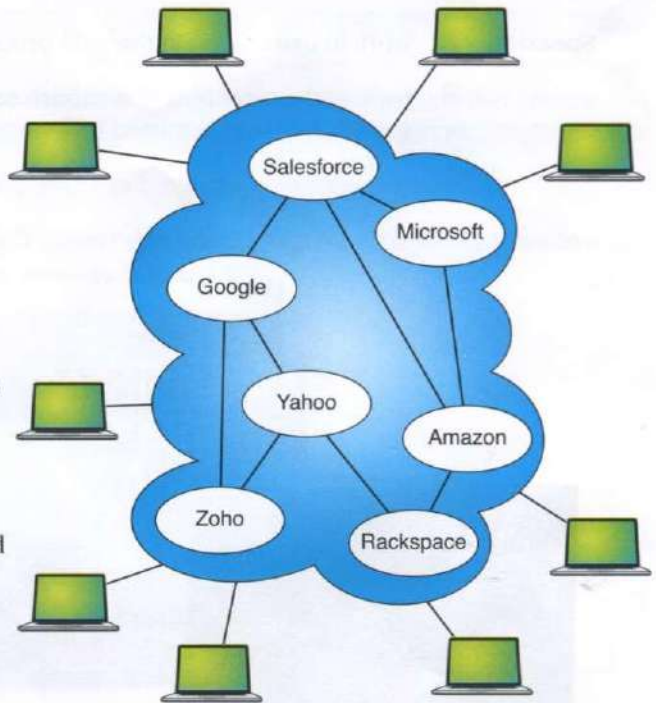
Data storage

Online storage is an (1) *emerging* method of data storage and back-up. A remote server with a network connection and special software backs up files, folders, or the entire (2) _____ of a hard drive. There are many companies that provide a web-based backup.

One (3) _____ technology in this area is (4) _____ computing. This allows colleagues in an organisation to share resources, software and information over the Internet.

Continuous backup and storage on a remote hard drive eliminates the risk of data (5) _____ as a result of fire, flood or (6) _____. Remote data storage and back-up providers (7) _____ the data and set up password protection to ensure maximum (8) _____.


Small businesses and individuals choose to save data in a more traditional way. External drives, disks and (9) _____ tapes are very popular data storage solutions. USB or (10) _____ memories, DVDs and hard disks are cheap and widely accessible solutions. These methods are very practical with small (11) _____ of data storage and backup. However, they are not very reliable and do not (12) _____ the user in case of a disaster.



Speaking 3 What storage and backup solutions are the most popular? Which solutions do you use most often?

Listening 4  27 Listen and repeat these phrases.

- 1 emerging technology
- 2 cloud computing
- 3 data storage
- 4 hard drive
- 5 external drives
- 6 backup providers

5  28 Listen to this dialogue. A colleague, Tim, is asking an IT expert, Sandy, what storage device to buy. Mark these statements true (T) or false (F).

- | | |
|---|-------|
| 1 Tim needs the storage device for work. | T / F |
| 2 Tim wants to backup music and photos. | T / F |
| 3 Sandy recommends an external hard drive. | T / F |
| 4 Tim can spend \$300 on the storage device. | T / F |
| 5 Sandy recommends a storage device with a special feature. | T / F |

Language

Asking for and giving advice

<p>We use should/would + infinitive without <i>to</i> to give advice.</p>	<p><i>If/You/He/She/It/We/They should/shouldn't (should not) ...</i></p> <p><i>What should I do?</i></p> <p><i>You should buy a flash drive.</i></p> <p><i>You shouldn't get a server.</i></p>
	<p><i>If/You/He/She/It/We/They would/wouldn't (would not) ...</i></p> <p><i>What would you recommend?</i></p> <p><i>I'd (would) recommend a flash drive.</i></p> <p><i>I wouldn't (would not) recommend a server.</i></p>
	<p><i>If/You/He/She/It/We/They ought to ...</i></p> <p><i>What ought I to do?</i></p> <p><i>You ought to buy a flash drive.</i></p> <p><i>You oughtn't to get a server.</i></p>
	<p><i>If/You/He/She/It/We/They had better ...</i></p> <p><i>What had better I do?</i></p> <p><i>You had better buy a flash drive.</i></p> <p><i>You had better not get a server.</i></p>

Speaking 6 Work in pairs. Practise asking for advice about backup solutions for a small company. Use the information in 2.

Example:

A: *What would you recommend ... ?*

B: *I'd recommend ... /You should ...*







Database system benefits

Speaking 1 What kind of data do companies create, manipulate, store and retrieve?

Vocabulary 2 Match the company department 1–8 with the type of data it works with a– h.

- | | |
|----------------------|---|
| 1 Finance | a) data about employees, training, recruitment needs |
| 2 Marketing | b) data about product specification, details and design |
| 3 Human resources | c) data about profits, tax, loans, shares and cash |
| 4 Customer relations | d) data about volume of products sold |
| 5 Production | e) data about customers, satisfaction surveys, promotions |
| 6 Technical support | f) data about product advertisements and competitors |
| 7 Sales | g) data about quantity of product in storage |
| 8 Stock management | h) information about the Help Desk, support calls, manuals, problem reports |

3 Look at the four types of data below from PartyPlanner Ltd. What do you think PartyPlanner Ltd does? What company departments can you identify?

			
Personal data: - CVs, job descriptions - employee personal data - training - holiday	Customer data: - customer contacts - satisfaction surveys - promotions	Product data: - inventory - purchasing needs - return products	Technical data: - contact to help desk - helpdesk reports - troubleshooting manuals - service reports

Speaking 4 Work in small groups. Talk about the advantages and disadvantages of a computerised database. Present your ideas to the rest of the group.

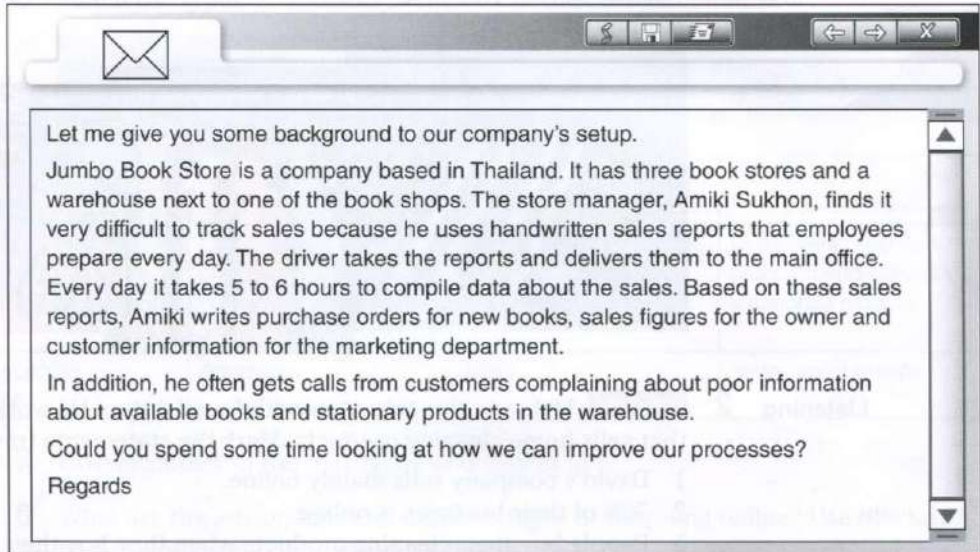
Example: There are many advantages/disadvantages ...



Business matters

Reading 1 Read part of this email from the owner of Jumbo Book Store. Answer these questions.

- 1 What types of information does Jumbo Book Store communicate between its employees?
- 2 How do the employees exchange information in the company?
- 3 What documents does Amiki prepare?
- 4 How much time does it take to compile the data?
- 5 Why do the customers complain?



Speaking 2 Work in small groups. Prepare recommendations using the problem/solution outline.

Problem/Solution Outline

Problem	Who?	
	What?	
	Why?	
Solutions	1.	3.
	2.	4.
	End Results	



3 Present your recommendations to another group.