

Kit's Library Database Challenge

Learning objective: To understand how databases are organized using fields and records to store and retrieve information effectively.

Kit the fox is organising the BookFlik library. A database is a structured collection of data. Each row of information is called a 'record', and each category of information (like Title or Price) is called a 'field'. Look at the table below. Use the information to help Kit sort the books and complete the tasks.

Library Database:

Title	Genre	Price	In Stock
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Space Wonders	Science	£8.50	Yes
Forest Friends	Fiction	£5.99	No
Art of Patterns	Art	£12.00	Yes
Ocean Maps	Geography	£9.25	Yes

Word bank: Database · Record · Field · Query · Information · Sort

1. Kit wants to know how many fields are in this database. List the names of the fields shown in the table. (2 marks)

2. If Kit adds a new book called 'Poetry Trails' which costs £7.50 and is in stock, how many records will the database have in total? (1 mark)

3. Which book is currently out of stock? Explain how you found this information using the database table. (2 marks)

4. Kit wants to find all books that cost more than £8.00. Write down the titles of the books that would appear in this search result. (2 marks)

5. Why is it better to use a digital database rather than a pile of loose paper notes to keep track of library books? (2 marks)

Draw: Draw a sketch of a digital screen showing Kit the fox looking at a tablet. On the screen, draw a simple table with headers for 'Name', 'Favorite Color', and 'Age' to show how a database stores details about friends.



Extension challenge: Design your own database table on a piece of paper. Choose a topic (e.g., your classmates' favorite sports, or a collection of your own books). Make sure you have at least 4 fields and 5 records.