

EBU5602 Database Tutorial 2

The following tables form part of a Library database held in an RDBMS:

Book	(<u>ISBN</u> , title, edition, year)
BookCopy	(<u>copyNo</u> , ISBN, available)
Borrower	(<u>bNo</u> , bName, bAddress)
BookLoan	(<u>copyNo</u> , <u>dateOut</u> , dateDue, bNo)

where Book contains details of book titles in the library and the ISBN is the key.

BookCopy contains details of the individual copies of books in the library and copyNo is the key. ISBN is a foreign key identifying the book title.

Borrower contains details of library members who can borrow books and bNo is the key.

BookLoan contains details of the book copies that are borrowed by library members and copyNo/dateOut forms the key. bNo is a foreign key identifying the borrower.

Formulate the following queries using **SQL**.

1. List all book titles published in the year 2012.
2. List all copies of the book title “Lord of the Rings” that are available for borrowing.
3. List the names of borrowers with overdue books.
4. How many copies of ISBN “0321” are currently available?
5. Produce a report of book titles that have been borrowed by “Peter Pan”.
6. Produce a report detailing how many times each book title has been borrowed.
7. Produce a report of book titles and the names of library members who have borrowed them, order by book title.