Consider the LIBRARY relational schema shown below, which is used to keep track of books, borrowers, and book loans. Referential integrity constraints are shown as directed arcs. Write down relational expressions for the following queries on the LIBRARY database:

(a) How many copies of the book titled “The Lost Tribe” are owned by the library branch whose name is "Sharpstown"?
(b) How many copies of the book titled “The Lost Tribe” are owned by each library branch?
(c) Retrieve the names of all borrowers who do not have any books checked out.
(d) For each book that is loaned out from the "Sharpstown" branch and whose DueDate is today, retrieve the book title, the borrower's name, and the borrower's address.
(e) List the name(s) of borrowers, who have loaned out ALL of the books authored by “Ullman”?
(f) List the title of books written by “Ullman”?
(g) For each book authored (or co-authored) by "Stephen King", retrieve the title and the number of copies owned by the library branch whose name is "Central".
(h) List the name(s) of borrowers, who have loaned out ONLY books published by “Addison-Wesley”?
(i) Print the total number of borrowers in the database