FIT3171 Databases
Assignment 1
Group 032

Assumptions

1. A Local Government Area (LGA) may have zero or more branches. For instance, an LGA might not have any operational libraries or may have libraries that are not yet open to the public (still in the construction phase or lack of manager).

2. Each Local Government Area (LGA) has its own unique library number. This is why the key for identifying an agency branch includes both branch_code and lga_code. This ensures that Library 1 in LGA A is different from Library 1 in LGA B, even if the branch numbers are the same.

3. A book will always belong to a catalogue, therefore a catalogue holds one or more books.

4. We assume that even if the book was reborrowed again immediately on the same day by the same person after returning it, the effort and work needed to record this new loan will delay getting it into the system. Thus, resulting in different borrowing times.

5. To identify a book copy, we assume that different branches might have the same book with different numbers of copies (might have more than one copy in each branch) therefore to find a book we use branch_code, book_copy_id, and isbn_no.

6. Borrowers can borrow from any branch of an LGA, even if it is not their home branch.

7. The book type can be gathered from the ISBN value, hence no need for the book entity to maintain its type.