**LAB EXPERIMENT - I**

**Consider the following schema for a Library Database:**

**BOOK (*Book\_id, Title, Publisher\_Name, Pub\_Year*)**

**BOOK\_AUTHORS (Book\_id, Author\_*Name*)**

**PUBLISHER (*Name, Address, Phone*)**

**BOOK\_COPIES (*Book\_id, Branch\_id, No-of\_Copies*)**

**BOOK\_LENDING (*Book\_id, Branch\_id, Card\_No, Date\_Out, Due\_Date*)**

**LIBRARY\_BRANCH (*Branch\_id, Branch\_Name, Address*)**

Write SQL queries to

1. Retrieve details of all books in the library – id, title, name of publisher, authors, number of copies in each branch, etc.
2. Get the particulars of borrowers who have borrowed more than 3 books, but from Jan 2017 to Jun 2017
3. Delete a book in BOOK table. Update the contents of other tables to reflect this data manipulation operation.
4. Partition the BOOK table based on year of publication. Demonstrate its working with a simple query.
5. Create a view of all books and its number of copies that are currently available in the Library.

Note: Create the above Library database consisting of tables (Book, Book\_Authors, Publisher, Book\_Copies, Book\_Lending, Library\_branch) with appropriate keys and insert at least 5 records in each table and perform queries on those tables.