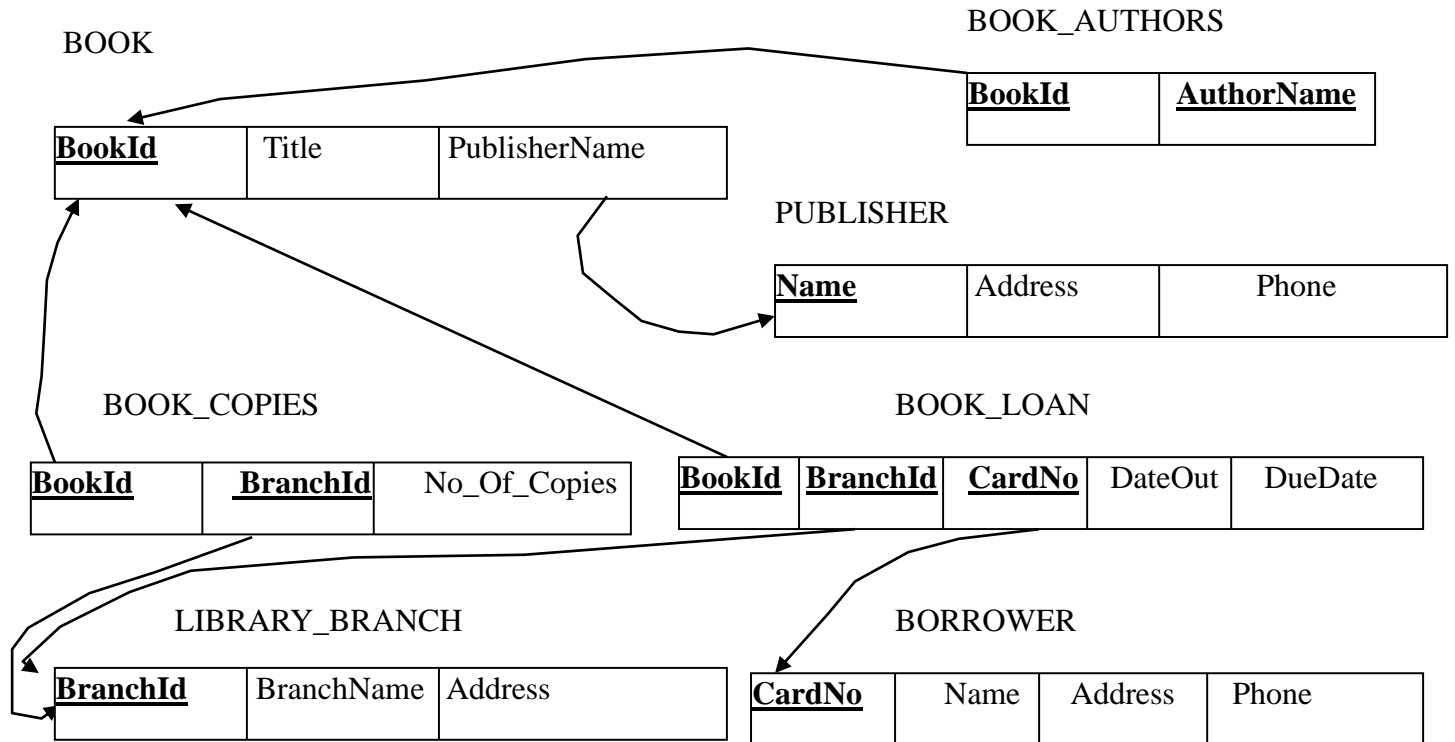


Example 05: Database Management System

A relational database Schema for LIBRARY database is given below.



Perform the following Queries on the Database.

- How many copies of the book titled DBMS are owned by the library branch whose name is “CSE Seminar library”?
- How many copies of the book titled DBMS are owned by each library branch?
- Retrieve the names of all borrowers who do not have any books checked out?
- For each book that is loaned out from the “CSE seminar library” branch and whose DueDate is today, retrieve the book title, the borrower’s name, and the borrower’s address.
- For each library branch, retrieve the branch name and the total number of books loaned out from that branch.
- Retrieve the names, addresses, and number of books checked out for all borrowers who have more than two books checked out.
- For each book authored by “Ivan BayRoss”, retrieve the title and the no. of copies owned by the library branch whose name is “RU central library”.

Book		
BookId	Title	PublisherName
100.001cn	Computer Network	PHI
100.002dsc	Database System	Tata
100.003ds	Digital System	PHI
100.004db	DBMS	PHI
100.005ora	Oracle 2000	Galgotia

Book_Author	
BookId	AuthorName
100.001cn	A S Tanenbaum
100.002dsc	Silberschatz
100.003ds	Ronald J Tocci
100.004db	Ivan Bayross
100.005ora	Ivan Bayross

Publisher		
Name	Address	Phone
PHI	20 Delhi Super Market	01715-454678
Tata	North Kolkata	0156-2345445
Galgotia	Mumbai	0192-203490

Book_Copies		
BookId	BranchId	No_Of_Copies
100.001cn	1001	2
100.001cn	1002	5
100.002dsc	1001	3
100.002dsc	1002	4
100.003ds	1001	3
100.003ds	1003	5
100.004db	1001	2
100.004db	1002	5
100.005ora	1001	2
100.005ora	1002	7

Library_Branch			
BranchId	BranchName		Address
1001	CSE Seminar Library		Rajshahi
1002	RU Central Library		Rajshahi
1003	DU Central Library		Dhaka
Borrower			
CardNo	Name	Address	Phone
10001	Saidur	CSE	01714-400567
10002	Rafiq	PHYSICS	0194-300456
10003	Masud	CSE	0156-345678
10004	Nobir	ICT	01199-203456

BOOK_LOAN				
BookId	BranchId	CardNo	DateOut	DueDate
100.001cn	1001	10001	15-Jan-15	15-Feb-15
100.001cn	1002	10002	25-Jan-15	25-Feb-15
100.002dsc	1001	10003	20-Feb-15	20-Mar-15
100.002dsc	1002	10004	15-Mar-15	15-Apr-15
100.003ds	1001	10001	07-Jun-15	07-Jul-15
100.003ds	1003	10002	15-Oct-15	15-Nov-15
100.004db	1001	10003	25-Oct-15	25-Nov-15
100.004db	1002	10004	15-Nov-15	15-Dec-15
100.005ora	1001	10003	22-Dec-15	22-Jan-16
100.005ora	1002	10001	25-Dec-15	25-Jan-16