LIBRARY DATABASE DESIGN

books		
Attribute	Constraints	Data Type
book_id	Primary Key	Serial
ISBN	Unique , Not Null	Varchar(13)
book_title	Not Null	Varchar(200)
author_name	Not Null	Varchar(200)
available	Not Null	Boolean
genre	Not Null	Varchar(100)
publisher_name	Unique , Not Null	Text
publish_year	Not Null	Small Integer

authors		
Attribute	Constraints	Data Type
author_id	Primary Key	Serial
full_name	Not Null	Varchar(200)

book_authors			
Attribute	Constraints	Data Type	
author_id	Foreign Key	Integer	
book_id	Foreign Key	Integer	
	members		
Attribute	Constraints	Data Type	
member_id	Primary Key	Serial	
full_name	Not Null	Varchar(200)	
address	Not Null	Text	
phone	Unique , Not Null	Varchar (50)	
email	Unique , Not Null	Varchar (320)	
member_date	Not Null	Timestamp	
member_type	Not Null	Varchar(100)	

loan		
Attribute	Constraints	Data Type
branch_id	Foreign Key, Not Null	Integer
member_id	Foreign Key, Not Null	Integer
book_id	Foreign Key, Not Null	Integer
loan_date	Not Null	Date

due_date	Not Null	Date
return_date		Date

publishers		
Attribute	Constraints	Data Type
publisher_id	Primary Key	Serial
publisher_name	Unique , Not Null	Text
address	Not Null	Varchar(250)
phone	Unique , Not Null	Varchar(50)

branchs		
Attribute	Constraints	Data Type
branch_id	Primary Key	Serial
branch_name	Not Null	Text
address	Not Null	Varchar(250)
phone	Unique , Not Null	Varchar(50)

employees		
Attribute	Constraints	Data Type
employee_id	Primary Key	Serial
employee_full_name	Not Null	Varchar(200)
salary	Not Null	Integer

phone	Unique , Not Null	Varchar(50)
email	Unique , Not Null	Varchar (320)
position	Not Null	Varchar(200)

book_inventory		
Attribute	Constraints	Data Type
Book_id	Foreign Key , Not Null	Integer
Branch_id	Foreign Key , Not Null	Integer
No_of_copy	Not Null	Small Integer