

Table: Books							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	book_id	bigint	pk		incremental	FALSE	TRUE
2	isbn	bigint				FALSE	TRUE
3	title	varchar(30)				FALSE	TRUE
4	author	varchar(50)				FALSE	FALSE
5	publication_year	year				FALSE	FALSE
6	edition	bigint				FALSE	FALSE
7	genre	varchar(20)				FALSE	FALSE
8	author_id	bigint	fk	Authors.author_id	incremental	FALSE	TRUE
9	publisher_id	bigint	fk	Publishers.publisher_id	incremental	FALSE	TRUE

Table: Members							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	member_id	bigint	pk		incremental	FALSE	TRUE
2	name	varchar(30)				FALSE	FALSE
3	contact_info	text				TRUE	FALSE
4	membership_type	enum				FALSE	FALSE
5	history	integer				FALSE	FALSE

Table: Reservations							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	reservation_id	bigint	pk		incremental	FALSE	TRUE
2	member_id	bigint	fk	Members.member_id	incremental	FALSE	TRUE
3	book_id	bigint	fk	Books.book_id	incremental	FALSE	TRUE
4	branch_id	bigint	fk	Library_Branch.branch_id	incremental	FALSE	TRUE
5	reservation_date	date				FALSE	FALSE
6	expiration_date	date				FALSE	FALSE
7	status	enum				FALSE	FALSE

Table: Authors							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	author_id	bigint	pk		incremental	FALSE	TRUE
2	name	varchar(30)				FALSE	FALSE
3	nationality	varchar(30)				TRUE	FALSE

Table: Inventory							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	inventory_id	bigint	pk		incremental	FALSE	TRUE
2	branch_id	bigint	fk	Library_Branch.branch_id	incremental	FALSE	TRUE
3	copy_id	bigint	fk	Copies.copy_id	incremental	FALSE	TRUE

Table: Borrowing							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	borrowing_id	bigint	pk		incremental	FALSE	TRUE
2	member_id	bigint	fk	Members.member_id	incremental	FALSE	TRUE
3	copy_id	bigint	fk	Copies.copy_id	incremental	FALSE	TRUE
4	branch_id	bigint	fk	Library_Branch.branch_id	incremental	FALSE	TRUE
5	borrow_date	date				FALSE	FALSE
6	due_date	date				FALSE	FALSE
7	return_date	date				FALSE	FALSE
8	finer	bigint				TRUE	FALSE
9	condition	enum				FALSE	FALSE

Table: Publishers							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	publisher_id	bigint	pk		incremental	FALSE	TRUE
2	name	varchar(30)				FALSE	FALSE
3	contact_info	text				FALSE	FALSE
4	author_id	integer	fk	Authors.author_id	incremental	FALSE	TRUE

Table: Copies							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	copy_id	bigint	pk		incremental	FALSE	TRUE
2	book_id	bigint	fk	Books.book_id	incremental	FALSE	TRUE
3	status	varchar(20)				TRUE	FALSE
4	book_format_id	bigint	fk	BookFormats.book_format_id	incremental	FALSE	TRUE

Table: Formats							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	format_id	bigint	pk		incremental	FALSE	TRUE
2	name	varchar(20)				FALSE	FALSE

Table: Transfers							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	transfer_id	bigint	pk		incremental	FALSE	TRUE
2	book_id	bigint	fk	Books.book_id	incremental	FALSE	TRUE
3	source_branch_id	bigint				FALSE	TRUE
4	dest_branch_id	bigint				FALSE	TRUE
5	transfer_date	date				FALSE	FALSE

Table: Library_Publisher							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	branch_id	bigint	pk		incremental	FALSE	TRUE
2	publisher_id	bigint	fk	Publishers.publisher_id	incremental	FALSE	TRUE
3	discount	bigint	fk			TRUE	FALSE

Table: Book_Authors							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	book_author_id	bigint	pk		incremental	FALSE	TRUE
2	book_id	bigint	fk	Books.book_id	incremental	FALSE	TRUE
3	author_id	bigint	fk	Authors.author_id	incremental	TRUE	TRUE

Table: Library_Branch							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	branch_id	bigint	pk		incremental	FALSE	TRUE
2	name	varchar(50)				FALSE	FALSE
3	location	varchar(50)				TRUE	FALSE
4	contact_info	text				TRUE	FALSE

Table: BookFormats							
Sr No	ColumnName	DataType	Key	Reference	Constraint	isNullable	isUnique
1	book_format_id	bigint	pk		incremental	FALSE	TRUE
2	book_id	bigint	fk	Books.book_id	incremental	FALSE	TRUE
3	format_id	bigint	fk	Formats.format_id	incremental	FALSE	TRUE