

CATEGORIES	
PK	<u>category_id: int(10)</u>
	category_name: varchar(20)
	description: test

NOTIFICATION	
PK	<u>notification_id: int(10)</u>
FK	user_id: int(10)
	title: varchar(255)
	content: text
	send_date : datetime
	is_read: boolean

MESSAGE	
PK	<u>message_id: int(10)</u>
FK	receiver_id : int(10)
FK	sender_id : int(10)
	content: text
	timestamp: Datetime
	is_read: boolean
	sender_type: varchar(50)

Roles	
PK	<u>role_id: int</u>
	role_name: varchar(20)

BOOK	
PK	<u>book_id: int(10)</u>
	title: varchar(255)
	author: varchar(255)
	publisher: varchar(255)
	publication_date: date
	category_id: int(10)
	description: text
	language : varchar(50)

Account	
PK	<u>user_id: int(10)</u>
	full_name: varchar(100)
	email: varchar(100)
	password: varchar(255)
	phone: varchar(10)
	date_of_birth: date
	status: varchar(20)
FK	role_id: int
Allow NULL	staff_code: varchar(20)
Allow NULL	admin_code: varchar(20)

BOOK_COPIES	
PK	<u>copy_id: int(10)</u>
FK	book_id: int(10)
	barcode: int(10)
	status: varchar(50)
	shelf_location: varchar(50)
	condition: varchar(100)
	copy_date : date

RESERVATIONS	
PK	<u>reservation_id: int(10)</u>
FK	book: int(10)
FK	user_id: int(10)
	reserve_date: Datetime
	expire_date: Datetime
	status: varchar(20)

REVIEWS	
PK	<u>review_id: int(10)</u>
FK	book_id: int(10)
FK	user_id: int(10)
	rating: int(1)
	comment: text
	review_date: datetime

LOANS	
PK	<u>loan_id: int(10)</u>
FK	copy_id: int(10)
FK	user_id: int(10)
	loan_date: datetime
	due_date: datetime
	return_date: datetime
	status: varchar(20)

FINES	
PK	<u>fine_id: int(10)</u>
FK	loan_id: int(10)
	amount : decimal(10,2)
	reason: varchar(255)
	paid_status: boolean
	fine_day: datetime