ER Diagram

ADMIN

int	admin_id	PK
string	username	
string	password_hash	
string	first_name	
string	last_name	
string	email	
string	role	
date	created_date	

manages

manages

USER

int	user_id	PK
string	first_name	
string	last_name	
string	email	
string	phone	
string	address	
date	registration_date	
string	user_type	
string	status	

BOOK

int	book_id	PK
string	isbn	
string	title	
string	author	
string	publisher	
date	publication_date	
string	genre	
int	total_copies	
int	available_copies	
string	status	

borrows

is_borrowed

processes

BORROWED_BOOK

int	borrow_id	PK
int	user_id	FK
int	book_id	FK
date	borrow_date	
date	due_date	
date	return_date	
string	status	
decimal	fine_amount	

has_return

RETURN_TRANSACTION

int	return_id	PK
int	borrow_id	FK
int	admin_id	FK
date	return_date	
string	condition_on_return	
decimal	fine_paid	
string	notes	