

LIBRARY	
PK	<u>library_id INT</u>
	city VARCHAR(100) address VARCHAR(255) NOT NULL

BOOK	
PK	<u>isbn VARCHAR(13)</u>
	title VARCHAR(255) NOT NULL summary TEXT publisher VARCHAR(255) NOT NULL

WRITTEN_BY	
PK	<u>author_id INT</u>
PK	<u>isbn VARCHAR(13)</u>
	FOREIGN KEY (isbn) REFERENCES BOOK(isbn) FOREIGN KEY (author_id) REFERENCES AUTHOR(author_id)

COPY	
PK	<u>library_id INT</u>
PK	<u>isbn VARCHAR(13)</u>
PK	<u>copy_id INT DEFAULT nextval('copy_copy_id_seq'::regclass)</u>
	status VARCHAR(10) DEFAULT "available" FOREIGN KEY (isbn) REFERENCES BOOK(isbn) FOREIGN KEY (library_id) REFERENCES LIBRARY(library_id) CHECK (status IN ('available', 'loaned'))

LOAN	
PK	<u>fiscal_code VARCHAR(20)</u>
PK	<u>copy_id INT</u>
PK	<u>loan_date DATE DEFAULT CURRENT_TIMESTAMP</u> expected_return_date DATE DEFAULT CURRENT_DATE + INTERVAL actual_return_date DATE FOREIGN KEY (copy_id) REFERENCES COPY(copy_id) FOREIGN KEY (fiscal_code) REFERENCES READER(fiscal_code)

AUTHOR	
PK	<u>author_id INT NOT NULL</u>
	first_name VARCHAR(100) NOT NULL last_name VARCHAR(100) NOT NULL birth_date DATE DEFAULT CURRENT_TIMESTAMP death_date DATE DEFAULT CURRENT_TIMESTAMP biography TEXT

READER	
PK	<u>fiscal_code VARCHAR(20)</u>
	first_name VARCHAR(100) NOT NULL last_name VARCHAR(100) NOT NULL services VARCHAR(10) overdue_count INT DEFAULT 0 username VARCHAR(50) UNIQUE NOT NULL password VARCHAR(255) NOT NULL CHECK (services IN ('basic', 'premium'))

BIBLIOTECARIO	
PK	<u>library_id INT</u>
PK	<u>librarian_id INT</u>
	first_name VARCHAR(100) NOT NULL last_name VARCHAR(100) NOT NULL username VARCHAR(50) UNIQUE NOT NULL password VARCHAR(255) NOT NULL FOREIGN KEY (library_id) REFERENCES LIBRARY(library_id)