

Books

attribute	data types	key	
book_id	INT	PRIMARY KEY	NOT NULL UNIQUE
title	VARCHAR(50)		NOT NULL
author_id	INT	FOREIGN KEY	NOT NULL
genre_id	INT	FOREIGN KEY	NOT NULL
year_published	DATE		NOT NULL

attribute
genre_id
name
description

Authors

attribute	data types	key	
author_id	INT	PRIMARY KEY	NOT NULL UNIQUE
first_name	VARCHAR(50)		NOT NULL
last_name	VARCHAR(50)		NOT NULL
birth_year	DATE		NOT NULL

Patrons

attribute	data types	key	
patron_id	INT	PRIMARY KEY	NOT NULL UNIQUE
first_name	VARCHAR(50)		NOT NULL
last_name	VARCHAR(50)		NOT NULL
email	VARCHAR(100)		NOT NULL
phone_number	VARCHAR(100)		NOT NULL

Genres

data types	key	
INT	PRIMARY KEY	NOT NULL UNIQUE
VARCHAR(50)		NOT NULL
VARCHAR(100)		NOT NULL

Loans

attribute	data types	key	
loan_id	INT	PRIMARY KEY	NOT NULL UNIQUE
book_id	INT	FOREIGN KEY	NOT NULL
patron_id	INT	FOREIGN KEY	NOT NULL
loan_date	DATE		NOT NULL
return_date	DATE		NOT NULL