1. CREATE DOMAIN url\_domain AS VARCHAR(2048) CHECK (VALUE ~ '^https?://[^\s/$.?#].[^\s]\*$');
2. ‘book’ table:

CREATE TABLE book (

isbn VARCHAR(10) PRIMARY KEY,

title VARCHAR(300) NOT NULL,

author VARCHAR(255),

publication\_year INTEGER,

publisher VARCHAR(255),

image\_url url\_domain

);

1. ‘user’ table:

CREATE TABLE "user" (

user\_id SERIAL PRIMARY KEY,

username VARCHAR(100) NOT NULL UNIQUE CHECK (username ~ '^[a-zA-Z0-9\_]{2,}$'),

email VARCHAR(100) NOT NULL UNIQUE CHECK (email ~ '^[A-Za-z0-9.\_%-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4}$'),

password VARCHAR(64) NOT NULL

)

1. ‘rating’ table:

CREATE TABLE rating (

isbn VARCHAR(10),

user\_id INTEGER,

rating INTEGER CHECK (rating >= 0 AND rating <= 10),

PRIMARY KEY (isbn, user\_id),

FOREIGN KEY (isbn) REFERENCES book(isbn),

FOREIGN KEY (user\_id) REFERENCES "user"(user\_id)

);