```
Assigment2
```



Written Schemas and Scenario description:

Foreign keys for table schema can be found below

ER diagrams and table schemas can also be found below in order

```
Problem 1:
Create table Movies(
Movie id int not null primary key, ---movie identifier
sp_id int not null references Scenes(s_id), -- the screenplay the move was based on
foreign key(sp_id)
);
Create table screenplay(
sp_id int not null primary key, ---screenplay identifier
title varchar(30) NOT NULL, --title of the screen play
author varchar(30) NOT NULL, --author if the screen play
);
Create table scenes(
s_id int not null primary key, ---scene identifier
slocation varchar(30) NOT NULL, --location where the scene is set to take place.
flocation varchar(30) NOT NULL, --location where the scene is filmed irl.
sp int not null references screenplay(s_id),
Foreign key(sp_id)
);
Create table actor(
name varchar(30) not null primary key, ---name of actor
a_name varchar(30), ---name of actor's agent
```

```
address varchar(30) NOT NULL, --actor's home location
pnumber varchar(30) NOT NULL, --actor's phone number
);
Create table acted(
name varchar(30) not null references actor (name), ---name of actor in s_id
s_id int not null references scene (s_id), ---scene with actor name
primary key(name, s_id),
foreign key(name, s_id)
);
Create table taken(
takenum int not null, ---number of takes.
s_id int not null primary key references scene (s_id), ---scene with actor name
primary key(takenum, s_id)
);
Problem 2:
create table recordings(
id int primary key not null,
title varchar(30) NOT NULL,
artist varchar(30) NOT NULL,
producer varchar(30) default NULL,
```

```
year int );
create table tracks (
albumID int NOT NULL references recordings(id),
songID int NOT NULL references songs(sid),
track_number int NOT NULL,
foreign key (albumID, songID),
primary key (albumID,songID) );
create table users (
user_id varchar(30) primary key not null,
name varchar(30) not null );
create table playlists(
user_id varchar(30)
not null references users(user_id),
playlist_name varchar(30) not null,
foreign key (user_id),
primary key (user_id,playlist_name) );
create table playlist_tracks(
user_id varchar(30) not null,
playlist_name varchar(30) not null,
song_id int not null references songs (sid),
```

```
primary key (user_id, playlist_name,song_id),
foreign key (user_id, playlist_name, song_id)
references playlists(user_id, playlist_name) );
create table songs (
sid int primary key,
title varchar(30) NOT NULL,
authors varchar(30) NOT NULL,
);
create table audio (
sid int primary key reference song(sid),
type varchar(30) NOT NULL –the type of audio recording mp3 etc
);
since audio is inheriting from songs, I have decided to use the profs second style of representing
inheritance.
Problem 3:
create table book(
book_id int primary key not null, -- unique identifier for books
title varchar(30) NOT NULL, -- this is the title of the book
publisher varchar(30) NOT NULL, --this is the publisher of the book
date varchar(30) not NULL, --this is the date of publication of the book
year int
offset varchar(30), -- this is the difffrence between the users page number and the page the valsue
actually appears in the book
);
```

```
create table user(
user_id int primary key not null, -- unique identifier for a user
password varchar(30) NOT NULL -- the users login password
);
create table upload(
user int not null reference to user(user_id), -- unique identifier for a user the uploads book
book varchar(30) NOT NULL reference to book(book id), -- the users login password
primary key (user, book),
foreign key (user, book)
);
For this ER model I decided to make the relationship between book and user into a table because I made
if into an end to end relationship.
create table songs(
song_id int not null primary key, -- unique identifier for a song
title varchar(30) NOT NULL, -- this is the title of the song
composer varchar(30) NOT NULL, -- this is the composer of the song
pnum varchar(30) NOT NULL, -- this is the page the song appears in the book
length varchar(30) NOT NULL, -- this is the length of the song in the book
bookid varchar(30) NOT NULL reference to book(book_id), -- the users login password
foreign key (book)
);
Problem 4:
Scenario:
```

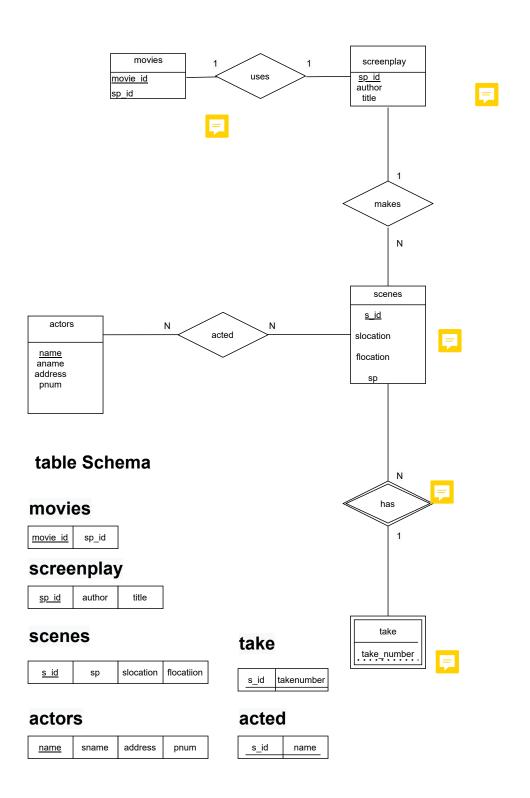
A lot of upcoming designers and fashion students depend on already made patterns, designs, illustration and how to videos to find inspiration to come up with pieces. Students and upcoming designers also create their own patterns, illustrations, and instructional videos which they can upload into the application. Users will be able to subscribe the other users and have user's subscribers to them, users are also able to rate designs. The database will catalog designs that are uploaded, the designs would have title, upload date, type of upload (patterns, designs, illustration and how to videos), and an average rating of stars (1-5).

A pattern would have the number of sections it takes to form a full piece, and an illustration would have the type of media and any specifications set by the author (the user), the howtovideos contain a difficulty level that rates the content of the video from baby, princess and queen, with baby being the easiest and queen the hardest. The howtovideos should also be able to tel if that video is related to a pattern, illustration or video that is already in the system.

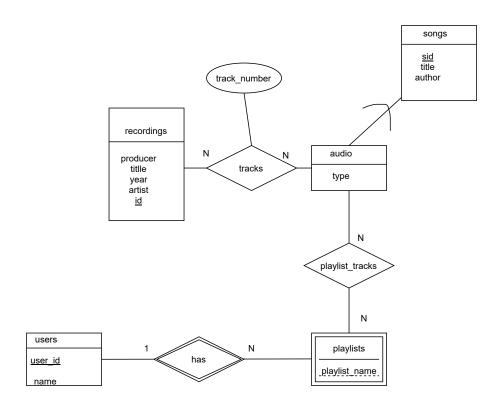
```
Schema:
create table user(
user_id int primary key not null, -- unique identifier for a user
password varchar(30) NOT NULL -- the users login password
subscribers varchar(30) –the user's subscribers
subscriptions varchar(30) –the user's subscriptions
);
create table design(
design_id int primary key not null, -- unique identifier for a user
title varchar(30) NOT NULL, -- the users login password
rating varchar(30), –the user's subscribers
udate varchar(30) not null, -the user's subscriptions
style varchar(30) not null,—the style of the design
era varchar(30) not null, – the ear the style is from
author varchar(30) not null - this will usually be the user who uploaded the material
);
```

```
Create table upload(
user id int not null reference user(user_id), -- user id of the user that uploaded design_id
design_id int not null reference design(design_id), -- the design that user_id uploaded
primary key(user id,design id),
foreign key(user_id,design_id)
);
create table pattern(
design_id int not null reference design(design_id) primary key, -- design id to show that pattern is a
design
nosection varchar(30) not null, –the number of sections that the pattern has
tool varchar(30) not null –any special tools needed to create pattern
);
create table illustration(
design_id int not null reference design(design_id) primary key, -- design id to show that illustration is a
design
type varchar(30) NOT NULL, – the type of media ie pdf, .jpg, .png etc
extra varchar(30) - this any extra information about the illustration such as clour, material etc
);
create table how-to-video(
design id int not null reference design(design id) primary key, -- design id to show that how-to-video is
a design
length varchar(30) NOT NULL, - length of the video
difficulty varchar(30) NOT NULL, – the difficulty of the material in the video
```

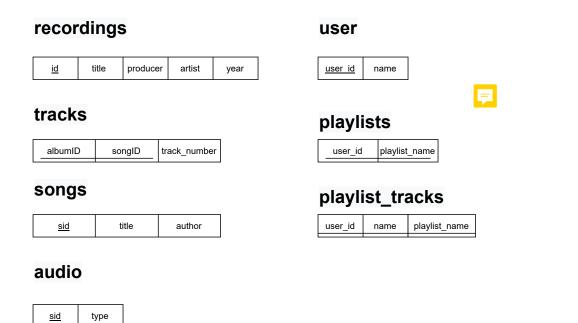
rdesign_id int reference design(design_id ) if the information referse to any other existing design
);

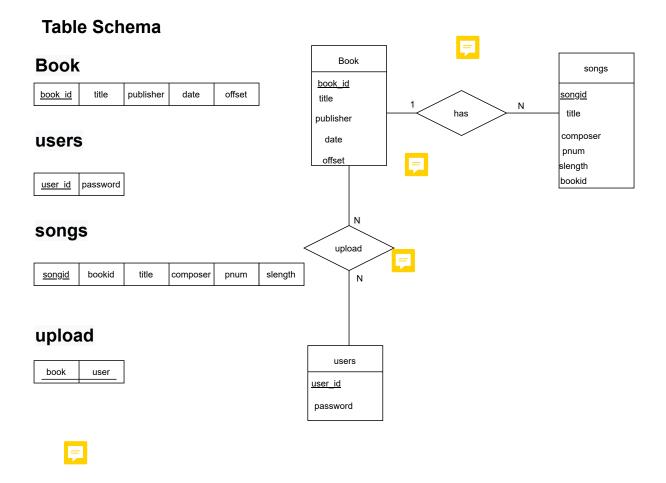




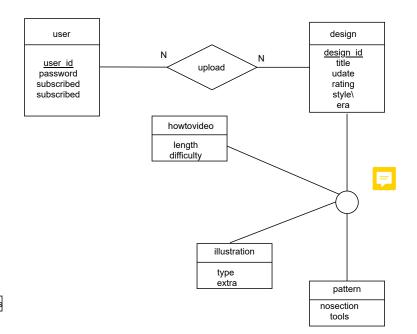


## **Table Schema**









## **Table Schema**

#### user

user_id	password	subscribed	subscriber

# design

design id	title	udate	rating	style	era

## pattern

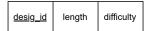




## illustration

desig_id type extra
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## howtovideo



## upload

