Postgres 4

Build the Movie Database

https://pragprog.com/titles/pwrdata/seven-databases-in-seven-weeks-second-edition/

Build the Movie Database: create_movies.sql

```
CREATE TABLE genres (
    name text UNIQUE,
    position integer
);
CREATE TABLE movies (
    movie_id SERIAL PRIMARY KEY,
    title text,
    genre cube
);
CREATE TABLE actors (
    actor_id SERIAL PRIMARY KEY,
    name text
);
CREATE TABLE movies_actors (
    movie_id integer REFERENCES movies NOT NULL,
    actor_id integer REFERENCES actors NOT NULL,
    UNIQUE (movie_id, actor_id)
CREATE INDEX movies_actors_movie_id ON movies_actors (movie_id);
CREATE INDEX movies_actors_actor_id ON movies_actors (actor_id);
CREATE INDEX movies_genres_cube ON movies USING gist (genre);
```

Build the Movie Database: movies_data.sql

```
INSERT INTO genres (name,position) VALUES ('Action',1), ('Adventure',2), ('Animation',3), ...

INSERT INTO movies (movie_id,title,genre) VALUES (1,'Star Wars','(0,7,0,0,0,0,0,0,7,0,0,0,0,10,0,0,0)'), (2,'Forrest Gump','(0,0,0,5,0,0,7,0,0,0,0,0,0,0,0,0,0)'), (3,'American Beauty','(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0)'), (4,'Citizen Kane','(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0)'), ...
```

Build the Movie Database: movies_data.sql

```
INSERT INTO actors (actor_id,name) VALUES (1,'50 Cent'), (2,'A Martinez'), (3,'A. Michael Baldwin'), (4,'Aaron Eckhart'), (5,'Aaron Paul'), ...

INSERT INTO movies_actors (movie_id,actor_id) VALUES (1,3165), (1,644), (1,1753), (1,3768), (2,4666), ...
```

Build the Movie Database

```
$ psql -h localhost -U postgres -p 5433
Password for user postgres:
psql (13.1)
Type "help" for help.

postgres=# create database movies;
CREATE DATABASE
postgres=# \list
```

Name	Owner	Encoding	databases Collate	Ctype	Access privileges	
cs464 movies mydb postgres template0	postgres postgres cs464 postgres postgres	+ UTF8 UTF8 UTF8 UTF8	C C C C	+ C C C	 =c/postgres +	
<pre>template1 template_postgis (7 rows)</pre>	postgres postgres	UTF8 UTF8	 C C	 C C	<pre>postgres=CTc/postgres =c/postgres + postgres=CTc/postgres</pre>	

```
postgres=# \c movies
You are now connected to database "movies" as user "postgres"
```

Build Movie Database

```
movies=# create extension cube;
CREATE EXTENSION

movies=# \cd /Users/gendreau/classes/spring21/cs464/codeSeven/code/postgres
movies=# \! pwd /Users/gendreau/classes/spring21/cs464/codeSeven/code/postgres

movies=# \i create_movies.sql
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE INDEX
CREATE INDEX
```

CREATE INDEX

Build Movie Database

movies=# \d							
List of relations							
Schema	Name	Туре	Owner				
public public public public public public public (6 rows)	actors actors_actor_id_seq genres movies movies_actors movies_movie_id_seq	table sequence table table table sequence	postgres postgres postgres postgres postgres postgres				

Build Movie Database

```
movies=# \d movies
                                Table "public.movies"
 Column | Type
                    | Collation | Nullable |
                                                            Default
                                not null | nextval('movies_movie_id_seq'::regclass)
movie_id | integer |
          text
title
           cube
genre
Indexes:
    "movies_pkey" PRIMARY KEY, btree (movie_id)
    "movies_genres_cube" gist (genre)
Referenced by:
    TABLE "movies_actors" CONSTRAINT "movies_actors_movie_id_fkey" FOREIGN KEY (movie_id) REFERENCES
movies(movie_id)
movies=# \i movies_data.sql
INSERT 0 18
INSERT 0 2861
INSERT 0 4986
INSERT 0 11168
```