Database Proof Document

Database Persistence proof with the:

- User saved in postgres
- Login + JWT authentication
- The authenticated routes (current/user)
- Publics routes (/users/:id)

Migrations proof

```
Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]
Loaded configuration file "config/config.js".
Using environment "development".
== 20250820074515-create-films: migrating =======
== 20250820074515-create-films: migrated (0.008s)
== 20250820074516-create-favorites: migrating =======
== 20250820074516-create-favorites: migrated (0.003s)
== 20250820074516-create-subscriptions: migrating ======= 20250820074516-create-subscriptions: migrated (0.003s)
migrations folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/migrations" already exists.

New migration was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/migrations/20250820074515-create-users.js .
 Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]
migrations folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/migrations" already exists.

New migration was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/migrations/20250820074515-create-films.is.
 Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]
migrations folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/migrations" already exists.

New migration was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/migrations/20250820074516-create-favorites.js.
 Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]
migrations folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/migrations" already exists.

New migration was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/migrations/20250820074516-create-subscriptions.js .

liafernando@mac netflix-clone-backend % npx sequelize-cli db:migrate
8325efcffd02: Pull complete
8cff9c97e1a1: Pull complete
e27d196c2a8a: Pull complete
11fd45c395da: Pull complete
Digest: sha256:572a90df10a58ebb7d3f223d661d964a6c2383a9c2b5763162b4f631c53dc56a
Status: Downloaded newer image for node:20
Sequelize CLI [Node: 20.19.4, CLI: 6.6.3, ORM: 6.37.5]
Parsed url postgres://postgres:*****@postgres:5432/netflix-clone == 20250820074515-create-films: migrating ======= == 20250820074515-create-films: migrated (0.011s)
== 20250820074515-create-users: migrating =======
== 20250820074515-create-users: migrated (0.027s)
   = 20250820074516-create-subscriptions: migrating ======
= 20250820074516-create-subscriptions: migrated (0.008s)
```

Table "public.profiles"					
Column	Туре	Collation	Nullable	Default	
id	integer		not null	nextval('profiles id seg'::regclass)	
userId	integer	i	not null		
name	character varying(80)	j	not null		
language	character varying(10)	İ	not null	'en'::character varying	
maturityRating	character varying(10)	İ	not null	'PG-13'::character varying	
avatarUrl	character varying(255)				
createdAt	timestamp with time zone	l	not null		
updatedAt	timestamp with time zone	l	not null	now()	
Indexes:					
"profiles_pkey" PRIMARY KEY, btree (id)					
Foreign-key constraints:					
	"profiles_userId_fkey" FOREIGN KEY ("userId") REFERENCES users(id) ON UPDATE CASCADE ON DELETE CASCAD				
Referenced by:					

Datbase tables

```
npm notice
npm notice New major version of npm available! 10.8.2 -> 11.5.2
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.5.2
npm notice To update run: npm install -g npm@11.5.2
npm notice
liafernando@mac netflix-clone-backend % docker exec -it uni-postgres psql -U postgres -d netflix-clone -c '\dt'

List of relations
Schema | Name | Type | Owner

public | SequelizeMeta | table | postgres
public | films | table | postgres
public | subscriptions | table | postgres
public | users | table | postgres
public | users | table | postgres
(4 rows)
```

Seeders for the tables

```
Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]

Seeders folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders" already exists.

New seed was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders/20250820095241-demo-users.js.

Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]

seeders folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders" already exists.

New seed was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders/20250820095241-demo-films.js.

Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]

seeders folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders" already exists.

New seed was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders/20250820095241-demo-favorites.js.
```

```
seeders folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders" already exists.

New seed was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders/20250822003129-seed-films.js.

Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]

seeders folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders" already exists.

New seed was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders/20250822003130-seed-genres.js.

Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]

seeders folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders" already exists.

New seed was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders/20250822003130-seed-series.js.

Sequelize CLI [Node: 22.14.0, CLI: 6.6.3, ORM: 6.37.5]

seeders folder at "/Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders" already exists.

New seed was created at /Users/liafernando/Desktop/Data-processing/netflix-clone-backend/seeders" already exists.
```

```
Commands:

sequelize db:migrate:schema:timestamps:add sequelize db:migrate:schema:timestamps:add Update migrations Update migrations sequelize db:migrate:undo sequelize db:migrate:undo all sequelize db:migrate:undo all sequelize db:seed Run evert all migrations ran Run specified seeder sequelize db:seed Run every seeder sequelize db:seed:all sequelize db:seed:all sequelize db:seed:undo:all sequelize db:rop Deletes data from the database sequelize db:rop Drop database specified by configuration sequelize init: sequelize init: sequelize init: sequelize init:migrations Initializes migrations sequelize init:migrations Initializes migrations Initializes seeders

Run pending migrations Update migration at ble to have timestamps
List the status of all migrations sequelize db:read database specified seeder Poletes data from the database Create database specified by configuration Initializes project Initializes project Initializes project Initializes migrations Initializes migrations Initializes seeders

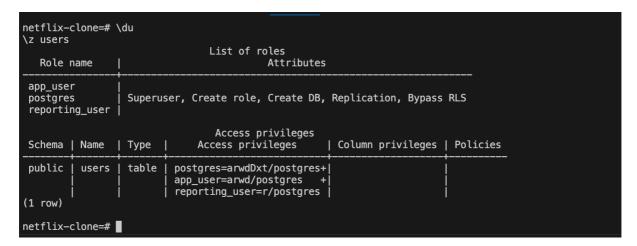
List the status of all migrations sequelize init:mogrational set seed with season and several migrations Initializes migrations Initializes seeders

Run pending migrations labet to have timestamps
List the status of all migrations and several migrations sequelize db:read for the database pecified by configuration Initializes seeders
```

```
liafernando@mac netflix-clone-backend % ls -1 seeders

20250820095241-demo-favorites.js
20250820095241-demo-films.js
20250820095241-demo-films.js
20250822003129-seed-films.js
20250822003130-seed-films.js
20250822003130-seed-genres.js
20250822003131-seed-series.js
20250822003131-seed-episodes.js
20250822003131-seed-pisodes.js
20250822003131-seed-episodes.js
20250822003131-seed-heasons.js
20250822003346-seed-profiles.js
20250822103346-seed-match-history.js
```

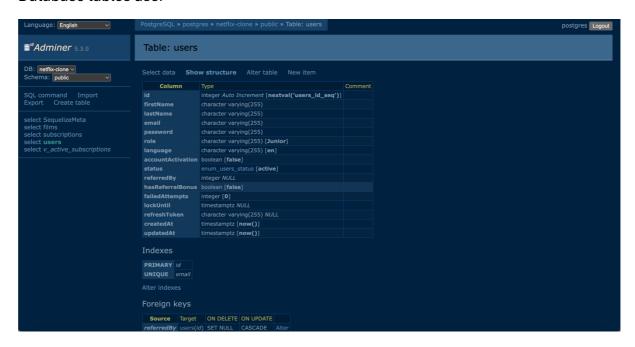
Roles and permissions proof

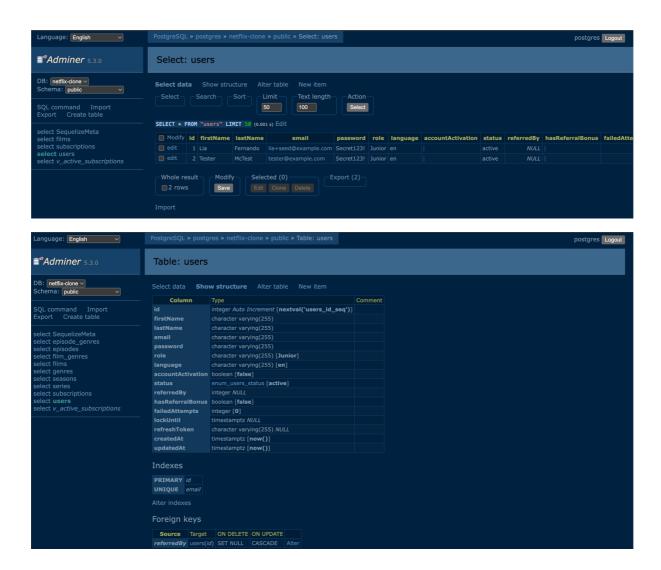


Active_subscriptions proof



Database tables user





Active Subscriptions



```
● liafernando@mac Data-processing % ls -lh ./backups

total 32

-rw-r--re--@ 1 liafernando staff 12K Aug 21 11:01 netflix-clone_2025-08-21_11-01.sql
○ liafernando@mac Data-processing % ■
```

```
\restrict eJKepT22Y9kfU85wmCGLnNtjCpcote7cN2aTsPC929qpUNABL7I8foGSnKl4Uh0

-- Dumped from database version 16.10 (Debian 16.10-1.pgdg13+1)

-- Dumped by pg_dump version 16.10 (Debian 16.10-1.pgdg13+1)

SET statement_timeout = 0;

SET lock_timeout = 0;

SET idle_in_transaction_session_timeout = 0;

SET idle_in_transaction_session_timeout = 0;

SET client_encoding = 'UTF8';

SET standard_conforming_strings = on;

SELECT_pg_catalog.set_config('search_path', '', false);

SET check_function_bodies = false;

SET xmloption = content;

SET client_min_messages = warning;

SET row_security = off;
```

Backup recovery command

```
• liafernando@mac Data-processing % docker exec uni-postgres pg_dump -U postgres netflix-clone > ./backups/netflix-clone_$(date +%F_%H-%M).sql
```

Triggers

```
not null
                                                                                                 nextval('films_id_seq'::regclass)
 id
                         integer
 title
                         character varying(255)
                                                                                 not null
 description
                         text
 category
releaseDate
                        character varying(50)
                        date
 duration
                       integer
ageLimit | character varying(20) | classification | character varying(50) | quality | character varying(20) | genre | character varying(100) | createdAt | timestamp with time zone | updatedAt | timestamp with time zone |
 ageLimit
                                                                                 not null
                                                                                                  'PG-13'::character varying
                                                                                 not null
                                                                                                 now()
                                                                                not null | now()
Indexes:
     "films_pkey" PRIMARY KEY, btree (id)
Triggers:
     trg_films_updated_at BEFORE UPDATE ON films FOR EACH ROW EXECUTE FUNCTION set_updated_at()
```

CRUD

Create

```
netflix-clone=# —— Create a demo film and store ID into variable
INSERT INTO films
(title, description, category, "releaseDate", duration, "ageLimit", classification, quality, genre)
VALUES
('Demo Film', 'Inserted via CRUD demo', 'movie', '2024-01-01', 120, 'PG-13', 'feature', 'HD', 'Drama')
RETURNING id, title \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad
```

```
netflix-clone=# -- C = CREATE (insert a demo film)
INSERT INTO films
(title, description, category, "releaseDate", duration, "ageLimit", classification, quality, genre)
VALUES
('Demo Film', 'Inserted via CRUD demo', 'movie', '2024-01-01', 120, 'PG-13', 'feature', 'HD', 'Drama')
RETURNING id, title \gset
INSERT 0 1
netflix-clone=# \echo :id :title
10 Demo Film
```

Read

Update

```
SELECT id, title, "updatedAt"
FROM films
WHERE id = :id;
id | title | updatedAt

10 | Demo Film (Updated) | 2025-08-22 02:01:52.133401+00
(1 row)

UPDATE 1
id | title | updatedAt

10 | Demo Film (Updated) | 2025-08-22 02:01:52.133401+00
(1 row)
```

Delete