Creating Database Tables:

- In this step all tables are created, attributes are assigned with keys, Primary Keys and Foreign Keys, and also UNIQUE constraint on few attributes.

- Below are the SQL commands for creating tables, keys and Constraints.

i. Movies (movie_id, title, release_date, year, run_time, votes)

```
postgres=# CREATE TABLE movies(
postgres(# movie_id int NOT NULL,
postgres(# title varchar(80),
postgres(# release_date date,
postgres(# year int,
postgres(# run_time int,
postgres(# votes float,
postgres(# PRIMARY KEY (movie_id)
postgres(# );
CREATE TABLE
```

- Adding UNIQUE constraint on movies.title

```
postgres=# alter table movies
postgres-# ADD UNIQUE(title);
ALTER TABLE
```

ii. Genre (genre_id, genre_name)

```
postgres=# CREATE TABLE genre(
postgres(# genre_id int NOT NULL,
postgres(# genre_name varchar(20),
postgres(# PRIMARY KEY (genre_id)
postgres(# );
CREATE TABLE
```

iii. Movie_Genre (movie_id, genre_id)

```
postgres=# CREATE TABLE movie_genre(
postgres(# movie_id int NOT NULL,
postgres(# genre_id int,
postgres(# PRIMARY KEY (movie_id, genre_id),
postgres(# FOREIGN KEY (movie_id) REFERENCES movies(movie_id),
postgres(# FOREIGN KEY (genre_id) REFERENCES genre(genre_id)
postgres(# );
CREATE TABLE
```

iv. Budget_revenue (movie_id, m_budget, m_revenue)

```
postgres=# CREATE TABLE budget_revenue(
postgres(# movie_id int NOT NULL,
postgres(# m_budget bigint,
postgres(# m_revenue bigint,
postgres(# FOREIGN KEY (movie_id) REFERENCES movies(movie_id)
postgres(# );
CREATE TABLE
```

v. Profit (movie_id, m_profit)

```
postgres=# CREATE TABLE profit(
postgres(# movie_id int NOT NULL,
postgres(# m_profit bigint,
postgres(# PRIMARY KEY (movie_id),
postgres(# FOREIGN KEY (movie_id) REFERENCES movies(movie_id)
postgres(# );
CREATE TABLE
```

vi. Gender(gender_id, gender)

```
postgres=# CREATE TABLE gender(
postgres(# gender_id int NOT NULL,
postgres(# gender int,
postgres(# PRIMARY KEY (gender_id)
postgres(# );
CREATE TABLE
```

vii. Actors (actor_id, actor_name, gender_id)

```
postgres=# CREATE TABLE actors(
postgres(# actor_id int NOT NULL,
postgres(# actor_name varchar(86),
postgres(# gender_id int,
postgres(# PRIMARY KEY (actor_id),
postgres(# FOREIGN KEY (gender_id) REFERENCES gender(gender_id)
postgres(# );
CREATE TABLE
```

viii. Movie_Actors (movie_id, actor_id)

```
postgres=# CREATE TABLE movie_actors(
postgres(# movie_id int NOT NULL,
postgres(# actor_id int,
postgres(# PRIMARY KEY (movie_id, actor_id),
postgres(# FOREIGN KEY (movie_id) REFERENCES movies(movie_id),
postgres(# FOREIGN KEY (actor_id) REFERENCES actors(actor_id)
postgres(# );
CREATE TABLE
```