

# SQL Movie Project

Creating a Movie Database with SQL

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# Agenda

- Introduction
- Database Structure
- ER Diagram
- Queries
- Conclusion

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# Introduction

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In today's presentation, we will be discussing the creation of a movie database using SQL. The database will store information about movies such as their titles, years of release, durations, genres, and production companies. Additionally, the database will include data on the people involved in making these movies, including actors, directors, and producers.

To create this database, we will be using the SQL programming language, which allows us to manage large amounts of data efficiently. We will walk through the code step by step and explain the purpose and functionality of each command. We will also introduce several views that allow us to extract useful information from the database.

# Database Structure

# Database Structure

In this Project we used the database from the below source:

<https://www.kaggle.com/datasets/blitzapurv/rsvp-case-study?resource=download>

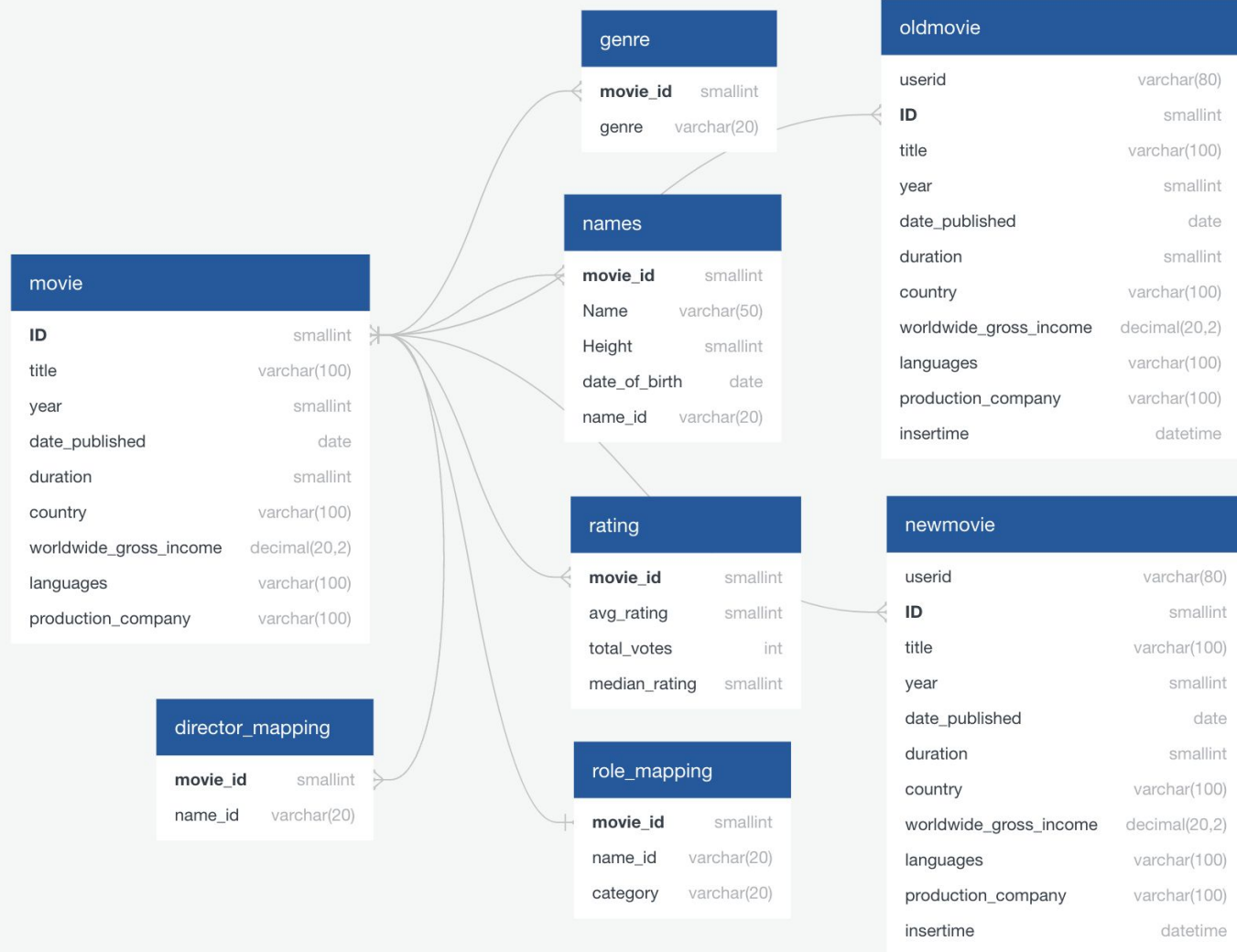
This Database consists of six tables, **Movie**, **Genre**, **Names**, **Directory\_Mapping**, **Role\_Mapping**, **Rating** with minimum of 3 columns and 5 rows.

All the tables are related to each other using foreign keys, which ensure data integrity and consistency. The movie table is the main table, and all other tables are related to it.

In addition to the six tables, the database also includes 2 triggers that keeps a record of newly inserted movies in the **newmovie** table, and old movies in the **oldmovie** table along with the user who inserted them and the time of insertion.

# ER Diagram

# SCHEMA



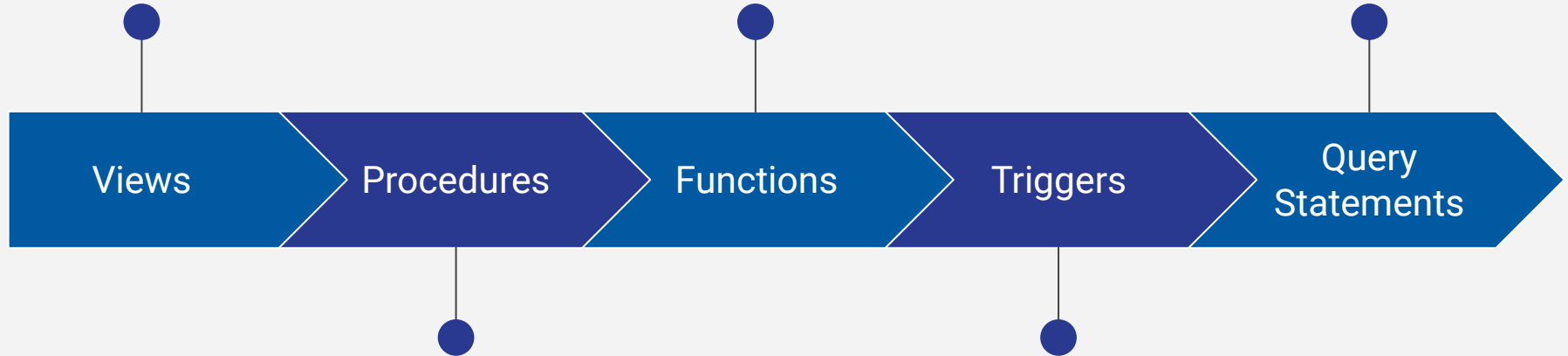


# Queries

Views are virtual tables that are created by querying one or more tables.

Functions are reusable code blocks that perform a specific task.

Query statements are used to retrieve and manipulate data in a database.



Procedures are similar to functions but can perform multiple tasks and do not return values.

Triggers are special types of stored procedures that are automatically executed in response to certain database events.

# Conclusion

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In this presentation, we have shown the code for creating and populating several tables in a MySQL database named "dbmovies". We have created tables to store information about movies, genres, names of actors and directors, and ratings of movies.

Furthermore, we have demonstrated the use of views to query the database. Specifically, we have created a view called "movieview" to find the total number of movies done by each actor, and used it to identify the actor who has done the highest number of movies.

Overall, this code provides a framework for building a database of movies and associated information, and demonstrates the use of views to extract meaningful insights from the data.

Any  
Questions



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Adios!