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Movie Recommendation

The purpose of our database is to recommend movies to people based on information they select. For example, someone could select "Horror" and movies within the database that meet that criteria will populate. By selecting one of the recommended movies, the user will be able to view more detailed information. Our database will have the following tables:

  -Actor: ActorId, FirstName, LastName, AcademyAwardWinner

  -Movie: MovieId, Title, Year, Genre

  -Director: DirectorId, FirstName, LastName

  -CastCrew: MovieId, LeadActor, Director

  -MovieStats: MovieId, Budget, Gross, AvgUserRating, NumAcademyAwards

  -MovieRatings: MovieId, UserId, Rating

  -Users: Username, FirstName, LastName

We believe the database is in a normalized form that prevents duplications from occurring. Additionally data has been atomized as a best as possible to narrow down the data as greatly as possible. By keeping the data normalized, we have greater control on permissions and limiting unwanted access.

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CastCrew ▼
MovieId INT
◆ LeadActor INT
◆ Director INT
Indexes ▼
PRIMARY
FK_LeadActor_idx
FK_Director_idx

Actors ▼
🔑 ActorId INT
◆ FirstName VARCHAR(30)
◆ LastName VARCHAR(45)
◆ AcademyAwardWinner CHAR(1)
Indexes ▶

Movies ▼
🔑 MovieId INT
◆ Ttitle VARCHAR(45)
◆ Year INT
◆ Genre VARCHAR(15)
Indexes ▼
MovieId_UNIQUE
PRIMARY

Director ▼
🔑 DirectorId INT
◆ FirstName VARCHAR…
◆ LastName VARCHAR…
Indexes ▼
PRIMARY
DirectorId_UNIQUE

MovieRatings ▼
MovieId INT
UserId INT
◆ Rating DECIMAL(2,2)
Indexes ▼
PRIMARY
fk_Movies_has_Users_Users1_idx
fk_Movies_has_Users_Movies1_idx

MovieStats ▼
MovieId INT
◆ Budget DECIMAL(9,2)
◆ Gross DECIMAL(9,2)
◆ AcademyAwards INT
◆ AvgUserRating DECIMAL(2,2)
Indexes ▼
PRIMARY

Users ▼
🔑 UserId INT
◆ Username VARCHAR(15)
◆ FirstName VARCHAR(30)
◆ LastName VARCHAR(45)
Indexes ▼
PRIMARY
Username_UNIQUE
UserId_UNIQUE