**All example below are partial examples and designs can vary.**

MOVIES

* Title (PK)
* Year (PK)
* Type ID (FK)
* Rating (FK)
* Awards (FK)
* Cast Crew (FK)
* Runtime

AWARDS

* Award Type (Movie, Director, Actor)
* Award Category (PK)
* Award Year (PK)
* Actor ID (FK)
* Director ID (FK)
* Movie ID (FK) (Required)

MOVIE\_COPIES

* Store Movie ID (PK)
* Store Inventory Number (PK)
* Dist Catalog Number (FK)
* Dist Serial Number (FK)
* Format

DIST\_CATALOGS

* Distributor ID (FK)
* Catalog Number (PK)
* Format
* Distributor Serial Number (PK)
* Unit Price

DISTRIBUTORS

* Distributor ID (PK)
* Distributor Name
* Website
* Phone Number

DIST\_ORDERS

* Order ID (PK)
* Distributor ID (FK)
* Distributor Serial Number (Item ordered) (FK)
* Quantity
* Distributor Discounts Applied (FK)
* Tax Rate

CUSTOMERS

* Customer ID (PK)
* Name
* Address
* Phone Number

RENTALS

* Transaction Number (PK)
* Customer ID (FK)
* Store Inventory Number (FK)
* Date Out
* Due Date
* Date Returned
* Rental Rate (Standard / Late) (FK)
* Customer Discounts Applied (FK)
* Fees Applied (FK)
* Tax Rate

**Relationship Sentence Pairs**

Physical Media Relations

Each MOVIE can have many MOVIE\_COPIES

Each MOVIE\_COPIES is a MOVIE

Each CUSTOMER can complete many RENTALS

Each RENTAL involves a CUSTOMER

Each MOVIE has a CAST\_CREW

Each CAST\_CREW is in one MOVIE

Each CAST\_CREW can have many ACTORS

Each ACTOR can be in a CAST\_CREW

Each CAST\_CREW can have many DIRECTORS

Each DIRECTOR can be in a CAST\_CREW

Each MOVIE has a TYPE

Each TYPE can apply to many MOVIES

**Metadata**

MOVIES Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Stands For** | **Data Type** | **Key Type and Relation** | **Required** | **Referential Integrity** |
| Title | Movie Title | String | PK | Yes | Yes |
| Year | Release Year | INT | PK | Yes | Yes |
| TypeID | Move Type (Genre) | String | FK TYPES.TypeID | Yes | No |
| Rating | Movie Rating | String | FK RATINGS.RatingID | Yes | No |
| Awards | Awards Won | String | FK AWARDS.(category, year) | No | No |
| CastCrew | Movie actors and directors | String | FK CASTS\_CREWS.(movieID, actorID, directorID) | Yes | No |
| Runtime | Movie running length | INT | N/A | Yes | No |