

ERD

by K Kam

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Entities	Attributes
-Distributor	Distributor_ID, Address, Name, City, State, Email, Phone
-CustomerCharges	Charge_ID, Customer_ID, Invoice_ID, LateFees, DamagedFees, RewindFees, Taxes
Reports	Report_ID, Video_ID, DVD_ID, ReturnedDate
-ElectronicCatalog	Catalog_ID, Distributor_ID, Movie_ID, Store_ID CatalogNo
-Customer	Customer_ID, Name, Address, City, State, Email, Phone
Invoice	Invoice_ID, DVD_ID, Video_ID, Charge_ID, DVDFees, VideoFees,
DVD	DVD_ID, Price, Quantity, Movie_ID
-Movie	Movie_ID, MovieType, MovieTitle, Actors/Actresses, Rating, YearReleased, RunningLength, Director, Academy Awards
Movie Copy	Copy ID, Movie ID, Format Type, Amount Charge and Copy num
Director	Director ID, Name and Last Name
Movie Director	Director ID and Movie ID
Academic Awards	Academic award ID, Movie ID, Category and Year
Movie ID Released	Distributor ID, Movie ID, Movie Title, Rating, Running Length and Year
ACTOR	Actor ID, Name and Last Name

Relationship sentence pairs

One movie can have many copy in different formats

One movie can be performed by many actors

One movie can have many directors

One movie can have many awards from the academy

One movie can have many distributors

One award can have a movie in a specific year and category

One movie can have many copies

A customer can have many rental records

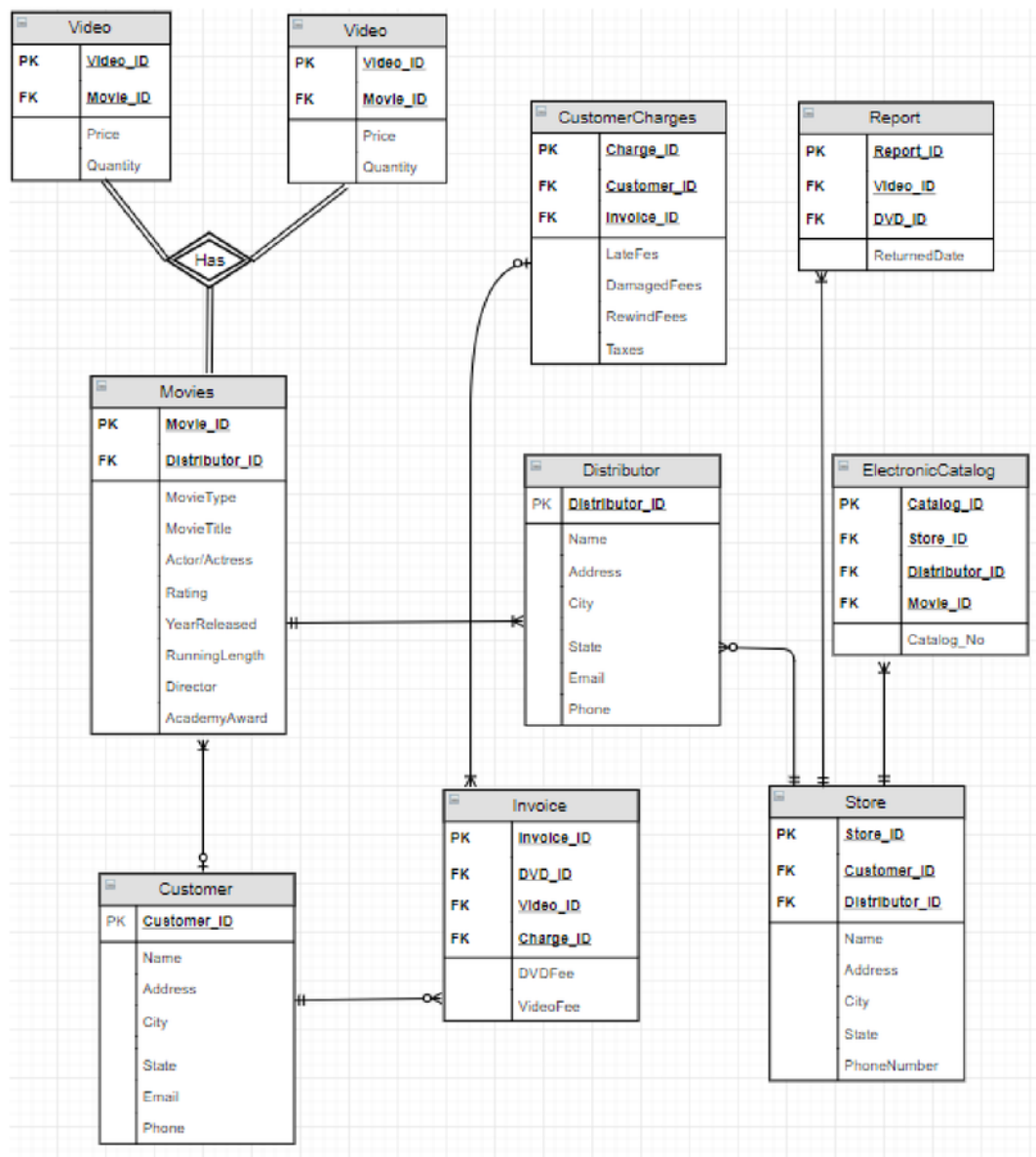
A customer can have many movies

One actor can perform many movie

One role of an actor is related to a movie.

One movie type can have many movie

Entity Relationship Diagram



Metadata

1 Table Name	Column Name	Column Null	Column DataType	Primary Key	Foreign Key
Customer	Customer_ID	Not Null	Number (10)	Yes	No
	Customer_Name	Not Null	VARCHAR2(20)	No	No
	Address	Not Null	VARCHAR2(50)	No	No
	PhoneNumber	Not Null	Number (11)	No	No

	City	Not Null	VARCHAR2(10)	No	No
	State	Not Null	VARCHAR2(10)	No	No
	Email	Not Null	VARCHAR2(50)	No	No
Movie	Movie_ID	Not Null	VARCHAR2(10)	Yes	No
	MovieType	Not Null	VARCHAR2(15)	No	No
	MovieTitle	Not Null	VARCHAR2(50)	No	No
	Actor/Actress	Not Null	VARCHAR2(20)	No	No
	Rating	Not Null	VARCHAR2(4)	No	No
	Year Released	Not Null	DATE	No	No
	RunningLength	Not Null	TIME	No	No
	Director	Not Null	VARCHAR2(20)	No	No
	AcademyAwards	Not Null	BOOLEAN	No	No
	Distributor_ID	Not Null	VARCHAR2(20)	No	Yes
Video	Video_ID	Not Null	Number (10)	Yes	No
	Movie_ID	Not Null	VARCHAR2(10)	No	Yes
	Price	Not Null	DECIMAL	No	No
	Quantity	Not Null	NUMBER (4)	No	No
DVD	DVD_ID	Not Null	NUMBER (10)	Yes	No
	Movie_ID	Not Null	VARCHAR2(10)	No	Yes
	Price	Not Null	DECIMAL	No	No
	Quantity	Not Null	NUMBER(4)	No	No
CustomerCharges	Charge_ID	Not Null	VARCHAR2(10)	Yes	No
	Customer_ID	Not Null	NUMBER(10)	No	Yes
	LateFees	Not Null	DECIMAL	No	No
	DamagedFees	Not Null	DECIMAL	No	No
	RewindFees	Not Null	DECIMAL	No	No
	Taxes	Not Null	DECIMAL	No	No
Report	Report_ID	Not Null	VARCHAR2(10)	Yes	No
	Video_ID	Not Null	NUMBER (10)	No	Yes
	DVD_ID	Not Null	NUMBER (10)	No	Yes
	ReturnedDate	Not Null	DATE	No	No
ElectronicCatalogue	Catalog_ID	Not Null	VARCHAR2(10)	Yes	No
	CatalogNo	Not Null	NUMBER (10)	No	No
	Distributor_ID	Not Null	VARCHAR2(20)	No	Yes
	Movie_ID	Not Null	VARCHAR2 (10)	No	Yes

	Store_ID	Not Null	VARCHAR2 (10)	No	Yes
Store	Store_ID	Not Null	Number (10)	Yes	No
	Name	Not Null	VARCHAR2(20)	No	No
	Address	Not Null	VARCHAR2(50)	No	No
	City	Not Null	VARCHAR2(10)	No	No
	State	Not Null	VARCHAR2(10)	No	No
	PhoneNumber	Not Null	Number (11)	No	No
	Customer_ID	Not Null	Number(10)	No	Yes
	Distributor_ID	Not Null	VARCHAR2(20)	No	Yes
Invoice	Invoice_ID	Not Null	Number(10)	Yes	No
	DVD_ID	Not Null	Number(10)	No	Yes
	Video_ID	Not Null	Number(10)	No	Yes
	Charge_ID	Not Null	VARCHAR2(10)	No	Yes
	DVDFees	Not Null	DECIMAL	No	No
	VideoFees	Not Null	DECIMAL	No	No
Distributor	Distributor_ID	Not Null	VARCHAR2(20)	Yes	No
	Customer_Name	Not Null	VARCHAR2(20)	No	No
	Address	Not Null	VARCHAR2(50)	No	No
	PhoneNumber	Not Null	Number (11)	No	No
	City	Not Null	VARCHAR2(10)	No	No
	State	Not Null	VARCHAR2(10)	No	No
	Email	Not Null	VARCHAR2(50)	No	No

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