

Mum and Pop Johnson Video Store

Determine and list your entities.

The following are the entities to be used in the database design.

- a) Distributor
- b) Movie
- c) Order
- d) Video
- e) Fee
- f) DVD
- g) Customer

Every Entity and its attribute have been indicated below.

- a) Distributor

Price, Genre, Serial Number, Warehouse (Primary Key)

- b) Movie

Movie Genre, Movie Title, Serial Number (Foreign Key), Cast, Award, Discount,
Movie ID (Primary Key)

- c) Order

Order Date, Return Date, DVD ID (foreign key), Customer ID (foreign key), video
ID (foreign key), Order ID (primary key)

- d) Video

Video Quantity, Video Price, Video Title, Video Genre (foreign key), Movie Award
(foreign key), Movie Cast (foreign key), Discount (foreign key), Movie ID (foreign
key), Serial Number (foreign key), Video ID (Primary key)

e) Fee

Late fee, Rewind fee, Damage fee, Fee ID (Primary key)

f) DVD

DVD Quantity, Movie Award (Foreign key), Movie Cast (Foreign key), Discount (Foreign key), DVD Genre (foreign key), Movie ID (foreign key), Serial Number (foreign key), DVD Price, DVD ID (Primary key)

g) Customer

Address, Name, Fees (Foreign key), Order ID (foreign key), Phone Number, Customer ID (Primary key)

Create relationship sentence pairs between those entities that are related.

The store Customer may have some Fee charged to them. (May have)

DVD (s) is contained in the customer's Order. (Contains)

The Customer places an Order (Place)

DVDs are provided by the Distributor (Provides)

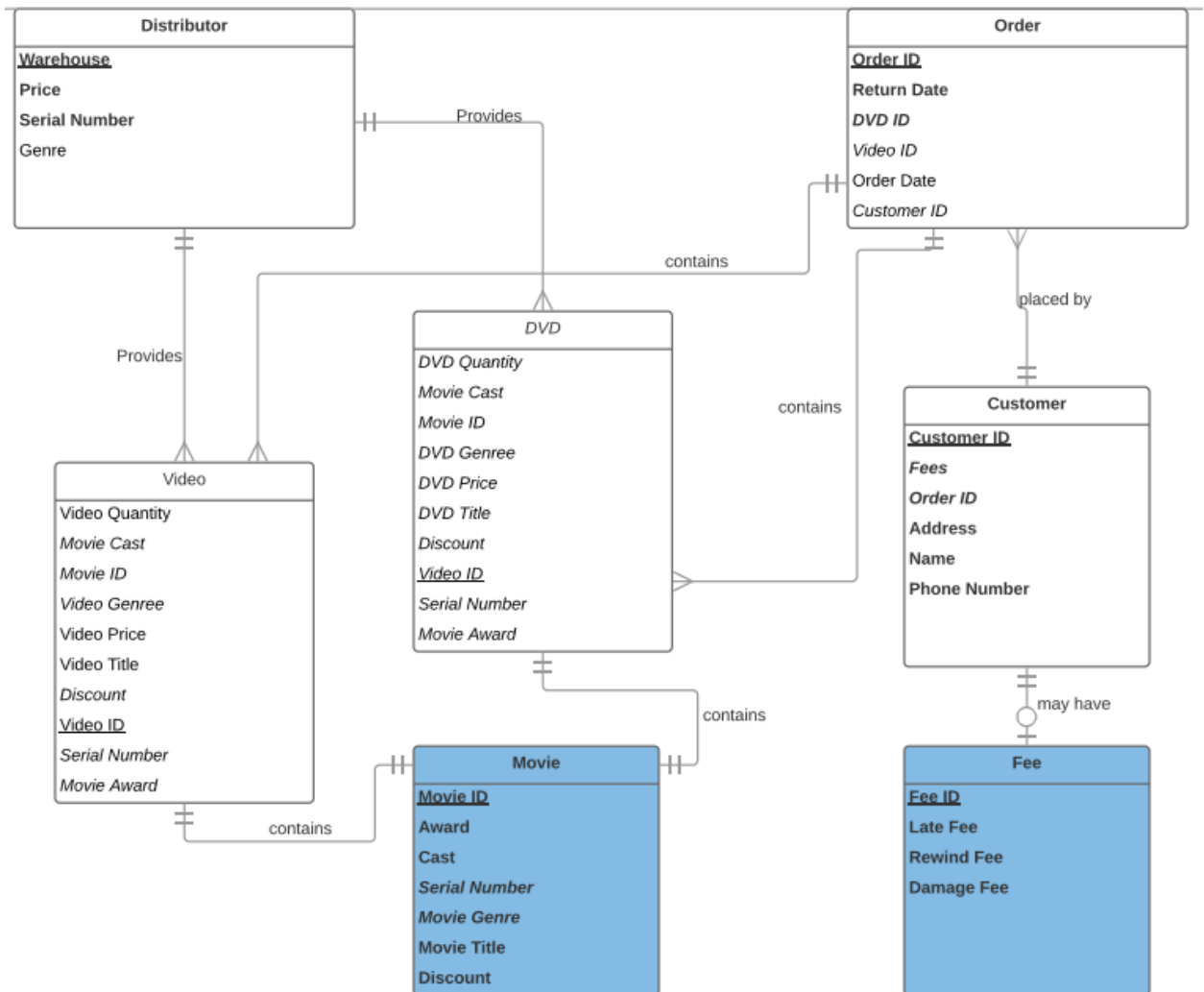
The Distributor provides Videos to the store. (Provides)

Every Video contains a Movie (Contains)

Every Order can have a Video or many Videos (Contains)

Every DVD contains a Movie (Contains)

Create an entity/relationship diagram (ERD) showing all your entities, attributes, and relationships.



Create metadata that describes the table created from each entity and the column created from each attribute in the ERD

Fee

Attribute	Metadata	
	Datatype	Length
Rewind Fee	Currency	8.2 Digits
Fee ID (PK)	Number	11 Digits
Late Fee	Currency	8.2 Digits
Damage Fee	Currency	8.2 Digits

Order

Attribute	Metadata	
	Datatype	Length
DVD ID (FK)	Number	15 Digits
Video ID (FK)	Number	15 Digits
Return Date	Number (MM/DD/YYYY)	15 Digits
Order Date	Number (MM/DD/YYYY)	15 Digits
Order ID (PK)	Number	15 Digits
Customer ID (FK)	Number	15 Digits

Distributor

Attribute	Metadata	
	Datatype	Length
Serial Number	Number	15 Digits
Warehouse (PK)	Number	11 Digits
Price	Currency	15 Digits
Genre	String	60 characters

DVD

Attribute	Metadata	
	Datatype	Length
DVD Quantity	Number	15 Digits
Discount (FK)	Percentage	3.2 Digits
Movie Award (FK)	String	64 Characters
Movie Cast (FK)	String	1024 Characters
DVD Price	Currency	8.2 Digits
DVD Genre (FK)	String	64 Characters
Movie ID (FK)	Number	15 Digits
DVD Title	String	64 Characters

Movie

Attribute	Metadata	
	Datatype	Length
Movie ID (PK)	Number	15 Digits
Cast	String	1024 Characters
Award	String	64 Characters
Movie Title	String	64 Characters
Serial Number (PK)	Number	15 Digits
Discount	Percentage	3.2 Digits
Genre	String	64 Characters

Video

Attribute	Metadata	
	Datatype	Length
Movie Award (FK)	Number	15 Digits
Movie ID (FK)	Number	15 Digits
Video Quantity	String	1024 Characters
Video ID (PK)	Number	15 Digits
Video Price	String	64 Characters
Movie Cast (FK)	String	64 Characters
Serial Number	Number	15 Digits
Discount (FK)	Percentage	3.2 Digits
Video Genre (FK)	String	64 Characters

Customer

Attribute	Metadata	
	Datatype	Length
Customer ID (PK)	Number	15 Digits
Fee (FK)	Number	15 Digits
Order ID (FK)	Number	15 Digits
Phone Number	Number	15 Digits
Address	String	128 Characters
Name	String	64 Characters

References

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