

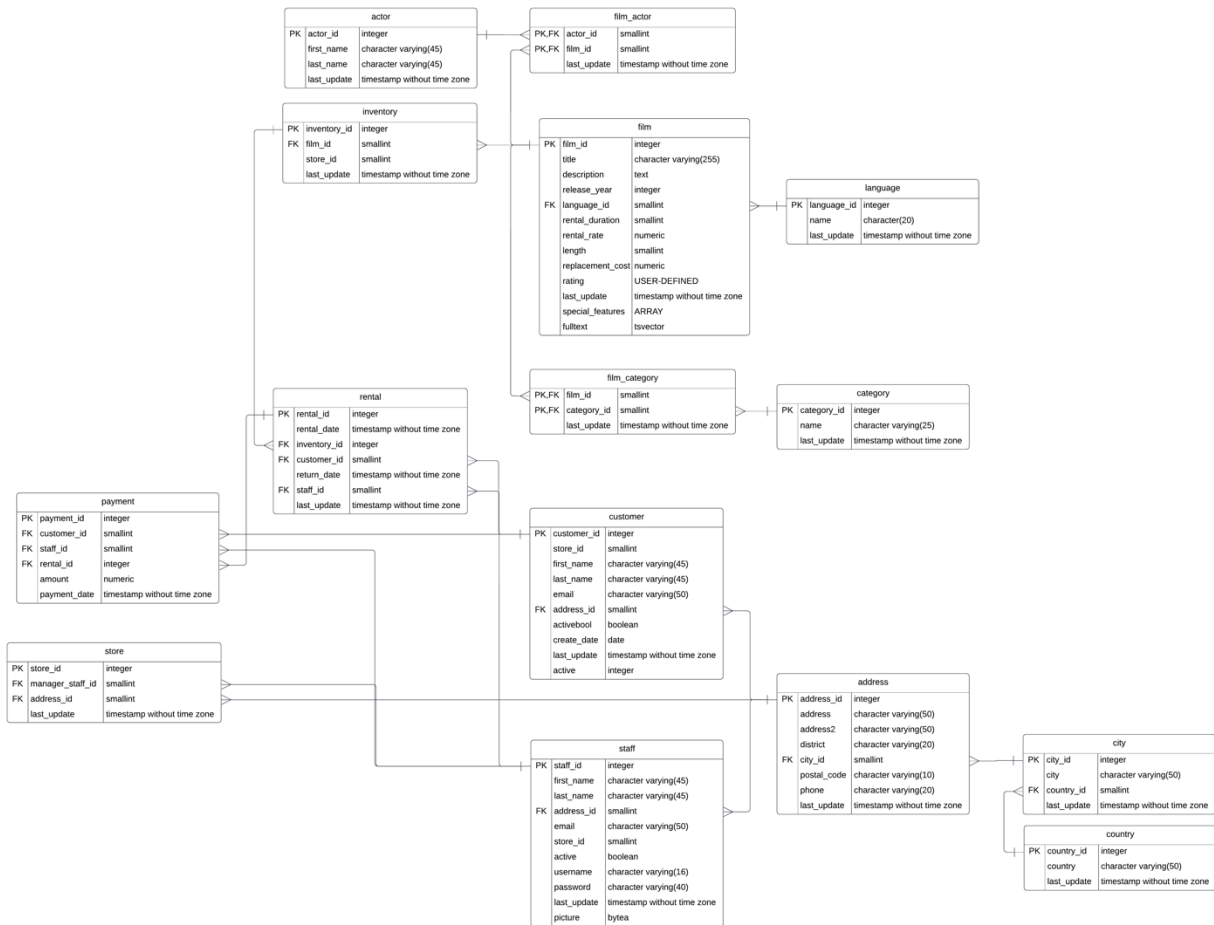
ROCKBUSTER STEALTH LLC

DATA DICTIONARY
PRATEEK SHARMA

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Entity Relationship Diagram (ERD)



- The ERD diagram is basically a mix of snowflake and star schema.

Legends

Primary Key – PK

Foreign Key – FK

Fact tables

Payment

PK/FK	Columns	Data Type	Description
PK	payment_id	Integer	# assigned to each record
FK	customer_id	Smallint	# assigned to each customer
FK	staff_id	Smallint	# assigned to each staff
FK	rental_id	Integer	# assigned to each rental
	amount	Numeric	Price of payment
	payment_date	Timestamp without time zone	Date and time of payment

Links to:	Join:
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id=staff.staff_id
Rental	payment.rental_id=rental.rental_id

Rental

PK/FK	Columns	Data Type	Description
PK	rental_id	Integer	# assigned to each rental
	rental_date	Timestamp without time zone	Date and time of rental date
FK	inventory_id	Integer	# assigned to inventory
FK	customer__id	Smallint	# assigned to each customer
	return_date	Timestamp without time zone	Date and time of return
FK	staff_id	Smallint	# assigned to staff

	last_update	Timestamp without time zone	Date and time of last status update
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Links to:	Join:
inventory	rental.inventory_id=inventory.inventory_id
customer	rental.customer_id=customer.customer_id
staff	rental.staff_id=staff.staff_id

Links from:	Join:
payment	Payment.rental_id=rental.rental_id

Dimension Tables

Actor

PK/FK	Columns	Data Type	Description
PK	actor_id	Integer	# assigned to actors
	first_name	Character Varying	First name of actors
	last_name	Character Varying	Last name of actors
	last_update	Timestamp without time zone	Date and time of actors last update

Links to:	Join:
Film_actor	Film_actor.actor_id=actor.actor_id

Address

PK/FK	Columns	Data Type	Description
PK	Address_id	Integer	# assigned to address
	Address	Character Varying	Complete address
	Address2	Character Varying	Extra space for address or an alt. address
	District	Character Varying	Name of district
FK	City_id	Smallint	# assigned to city
	Postal_code	Character Varying	Postal code related to the address
	Phone	Character Varying	Contact #
	Last_update	Timestamp without time zone	Date and time of last update

Links to:	Join:
City	Addrss.city_id=city.city_id

Links to:	Join:
payment	Payment.staff_id=staff.staff_id
rental	Rental.staff_id=staff.staff_id
store	Store.address_id=staff.address_id

Category

PK/FK	Columns	Data Type	Description
PK	Category_id	Integer	# assigned to category
	Name	Character Varying	Name of category
	Last_update	Timestamp without time zone	Date and time of last update

Links from:	Join:
Film_category	Film_category.category_id=category.category_id

City

PK/FK	Columns	Data Type	Description
PK	City_id	Integer	# assigned to city
	City	Character Varying	Complete city name
FK	Country_id	Smallint	# assigned to country
	Last_update	Timestamp without time zone	Date and time of last update

Links to:	Join:
country	city.country_id=country.country_id

Links from:	Join:
address	address.city_id=city.city_id

Country

PK/FK	Columns	Data Type	Description
PK	Country_id	Integer	# assigned to country
	Country	Character Varying	Name of the country
	Last_update	Timestamp without time zone	Date and time of last update

Links from:	Join:
city	city.country_id=country.country_id

Customer

PK/FK	Columns	Data Type	Description
PK	Customer_id	Integer	# assigned to the customers
	Store_id	Smallint	# assigned to the stores
	First_name	Character Varying	First name of the customer
	Last_name	Character Varying	Last name of the customer
	Email	Character Varying	Customer's email
FK	Address_id	Smallint	# assigned to the customer's address
	Activebool	Boolean	True, false and null
	Creat_date	Date	Customer account creation date
	Last_update	Last_update	Last update in date and time
	Active	Integer	1 or 0 to indicate activity

Links to:	Join:
address	customer.address_id=address.address_id

Links to:	Join:
payment	payment.customer_id=customer.customer_id
rental	rental.customer_id=customer.customer_id

Film

PK/FK	Columns	Data Type	Description
PK	Film_id	Integer	# assigned to the films
	Title	Character Varying	Title of the film
	Description	Text	Description of the film
	Release_year	Integer	Film release year
FK	Language_id	Smallint	# assigned to film language
	Rental_duration	Smallint	Film rental days
	Rental_rate	Numeric (4,2)	Rental rate as per usage
	Length	Smallint	Film length in minutes
	Replacement_Cost	Numeric (5,2)	Cost of film replacement
	Rating	Mpaa_rating	Film mpaa rating
	Last_update	Timestamp without time zone	Date and time of last update
	Special_features	Text []	Special features in film
	Fulltext	tsvector	Text search of the film

Links to:	Join:
language	film.language_id=language.language_id

Links from:	Join:
fim_actor	film_actor.fim_id=film.film_id
inventory	inventory.film_id=film.film_id

Film_actor

PK/FK	Columns	Data Type	Description
PK.FK	Actor_id	Smallint	# assigned to the actors
PK.FK	Film_id	Smallint	# assigned to the films
	Last_update	Timestamp without time zone	Date and time of last update

Links to:	Join:
actor	film_actor.actor_id=actor.actor_id
film	film_actor.film_id=film.film_id

Film_category

PK/FK	Columns	Data Type	Description
PK.FK	Film_id	Smallint	# assigned to the films
PK.FK	Category	Smallint	# assigned to the category type
	Last_update	Timestamp without time zone	Date and time of last update

Links to:	Join:
film	film_category.film_id=film.film_id
category	film_category.category_id=category.category_id

Inventory

PK/FK	Columns	Data Type	Description
PK	Inventory_id	Integer	# assigned to the inventory
FK	Film_id	Smallint	# assigned to the films
	Store_id	Smallint	# assigned to the stores
	Last_update	Timestamp without time zone	Date and time of last inventory update

Links to:	Join:
film	inventory.film_id=film.film_id
Store	inventory.store_id=store.store_id

Links from:	Join:
rental	rental.inventory_id=inventory.inventory_id

Language

PK/FK	Columns	Data Type	Description
PK	Language_id	Integer	# assigned to language
	Name	Character	Name of the language i.e, English, Spanish, French etc.

	Last_update	Timestamp without time zone	Date and time of last update
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Links from:	Join:
film	film.language_id=language.language_id

Staff

PK/FK	Columns	Data Type	Description
PK	Staff_id	Integer	# assigned to the staff
	First_name	Character Varying	First name of the staff
	Last_name	Character Varying	Last name of the staff
FK	Address_id	Smallint	Staff address
	Email	Character Varying	Staff email
	Store_id	Smallint	Staff store id
	Active	Boolean	True, false, or null
	Username	Character Varying	Staff username
	Password	Character Varying	Staff password
	Last_update	Timestamp without time zone	Time and date of last staff update
	Picture	bytea	binary picture data

Links to:	Join:
address	staff.address_id=address.address_id

Links from:	Join:
payment	payment.staff_id=staff.staff_id
rental	rental.staff_id=staff.staff_id
store	store.address_id=staff.address_id

Store

PK/FK	Columns	Data Type	Description
PK	Store_id	Integer	# assigned to the store
FK	Manager_staff_id	Smallint	# assigned to the manager on duty
FK	Address_id	Smallint	# assigned to the store address
	Last_update	Timestamp without time zone	Date and time of last store update

Links to:	Join:
staff	store.address_id=staff.address_id
address	store.address_id= address.address_id