ROCKBUSTER STEALTH

Data Dictionary

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1. Entity Relationship Diagram
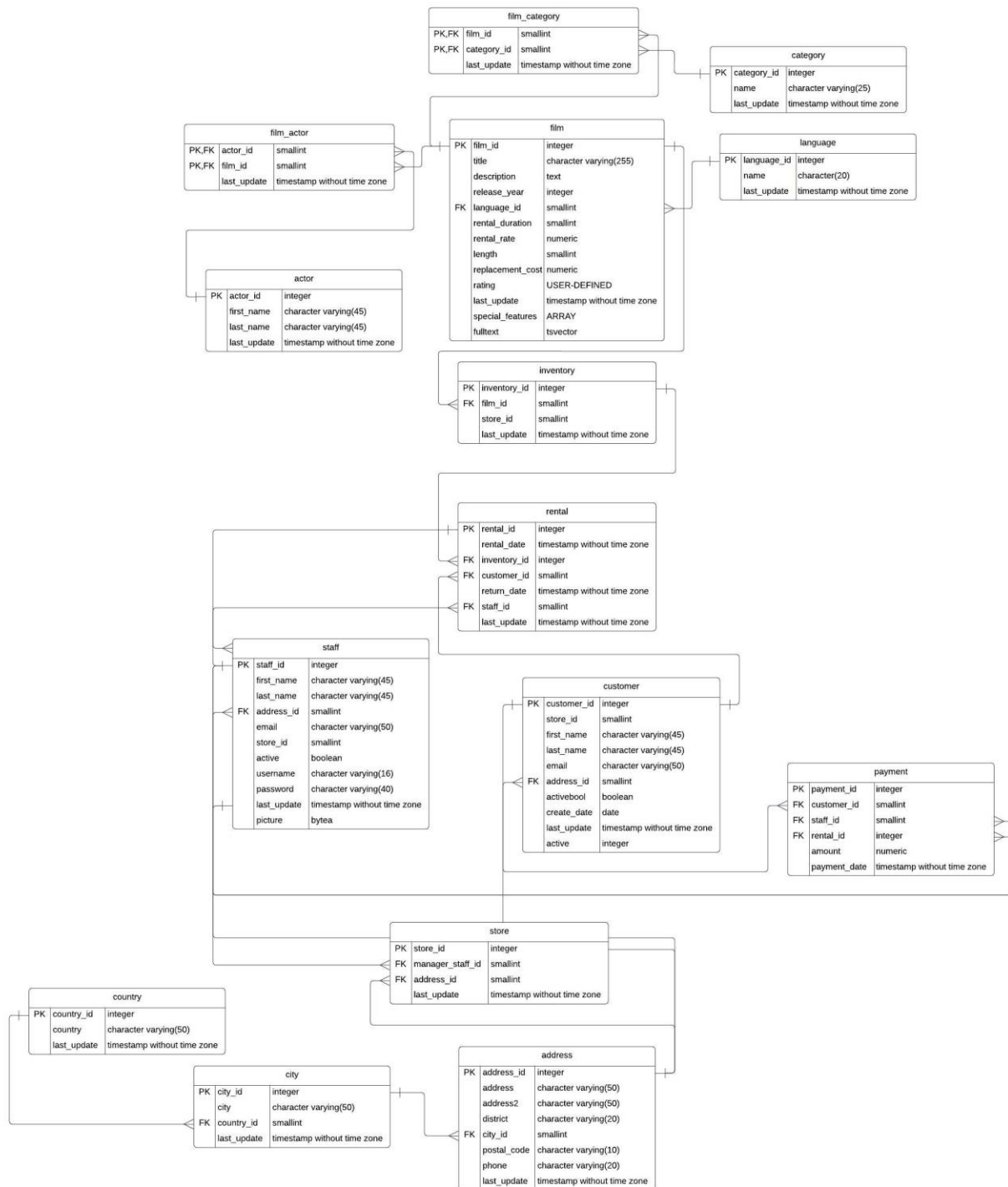
The Rockbuster ERD is a snowflake schema. It contains dimension and sub-dimension tables.

2. Legend : Primary Key: ⊶   Foreign Key: ↗

3. Fact Tables

3.1 Rental Table

|	Columns	Data Type	Description
⊶	rental_id	INTEGER	# assigned to each movie rental
	rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of each rental
↗	inventory_id	INTEGER	# assigned to each movie in inventory
↗	customer_id	SMALLINT	# assigned to each customer
	return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of movie rental return
↗	staff_id	SMALLINT	# assigned to each staff member
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links To:

Table	Join
inventory	rental.inventory_id = inventory.inventory_id
customer	rental.customer = customer.customer_id
staff	rental.staff_id = staff.staff_id

Links From:

Table	Join
payment	payment.rental_id = rental.rental_id

3.2 Payment Table

	Columns	Data Type	Description
⊶	payment_id	INTEGER	# assigned to each payment
↗	customer_id	SMALLINT	# assigned to each customer
↗	staff_id	SMALLINT	# assigned to each staff member
↗	rental_id	INTEGER	# assigned to each film rental
	amount	NUMERIC (5,2)	Cost of each rental
	payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time payment was made

Links To:

Table	Join
rental	payment.rental_id = rental.rental_id
customer	payment.customer_id = customer.customer_id
staff	payment.staff_id = staff.staff_id

4. **Dimension Tables**

4.1 Inventory

	Columns	Data Type	Description
🔑	inventory_id	INTEGER	# assigned to each movie in inventory
↗	film_id	SMALLINT	# assigned to each film
↗	store_id	SMALLINT	# assigned to each store
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links To:

| Table	Join
film	inventory.film_id = film.film_id
store	inventory.store_id = store.store_id

Links From:

Table	Join
rental	rental.inventory_id = inventory.inventory_id

4.2 Film

|	Columns	Data Type	Description
🔑	film_id	INTEGER	# assigned to each film
	title	CHARACTER VARYING (255)	Title of the film
	description	TEXT	Film description
	release_year	YEAR	Year film was released
↗	language_id	SMALLINT	# assigned to film's language
	rental_duration	SMALLINT	Total days film was rented
	rental_rate	NUMERIC (4,2)	Cost of film rental
	length	SMALLINT	Film duration in minutes
	replacement_cost	NUMERIC (5,2)	Cost to replace film
	rating	MPAA_RATING	Film rating
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update
	special_features	TEXT[]	Special features in film
	fulltext	TSYECTOR	Keywords linked for customer search

Links To:

Table	Join
language	film.language_id = language.language_id

Links From:

Table	Join
fim_actor	film_actor.film_id = film.film_id
inventory	inventory.film_id = film.film_id
film_category	film_category.film_id = film.film_id

4.3 Language

	Columns	Data Type	Description
⬤⊶	language_id	INTEGER	# assigned to film's language
	name	CHARACTER (20)	Language name
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links From:

Table	Join
film	film.language_id = language.language_id

4.4 Film_category

	Columns	Data Type	Description
⬤⊶ ↗	film_id	SMALLINT	# assigned to each film
⬤⊶ ↗	category_id	SMALLINT	# assigned to each film category
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links To:

Table	Join
film	film_category.film_id = film.film_id
category	film_category.category_id = category.category_id

4.5 Category

	Columns	Data Type	Description
⬤⊶	category_id	INTEGER	# assigned to each film category
	name	CHARACTER VARYING (25)	Category name
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links From:

Table	Join
film_category	film_category.category_id = category.category_id

4.6 Film_actor

	Columns	Data Type	Description
⌒↗	actor_id	SMALLINT	# assigned to each actor
⌒↗	film_id	SMALLINT	# assigned to each film
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links To:

Table	Join
actor	film_actor.actor_id = actor.actor_id
film	film_actor.film_id = film.film_id

4.7 Actor

	Columns	Data Type	Description
⌒	actor_id	INTEGER	# assigned to each actor
	first_name	CHARACTER VARYING (45)	First name of actor
	last_name	CHARACTER VARYING (45)	Last name of actor
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links From:

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

4.8 Staff

	Columns	Data Type	Description
⌒	staff_id	INTEGER	# assigned to each staff member
	first_name	CHARACTER VARYING (45)	First name of actor
	last_name	CHARACTER VARYING (45)	Last name of actor
↗	address_id	SMALLINT	# assigned to each staff member address
	email	CHARACTER VARYING (50)	Email for each staff member
	store_id	SMALLINT	# assigned to each store
	active	BOOLEAN	True/False response for if staff is active
	username	CHARACTER VARYING (16)	Username for each staff member
	password	CHARACTER VARYING (40)	Password for each staff member
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update
	picture	BYTEA	Photo of each staff member

Links To:

Table	Join
address	staff.address_id = address.address_id

Links From:

Table	Join
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff_id
store	store.address_id = staff.address_id

4.9 Customer

	Columns	Data Type	Description
⌐	customer_id	INTEGER	# assigned to each customer
	store_id	SMALLINT	# assigned to each store
	first_name	CHARACTER VARYING (45)	First name of customer
	last_name	CHARACTER VARYING (45)	Last name of customer
	email	CHARACTER VARYING (50)	Email for each customer
↗	address_id	SMALLINT	# assigned to each customer address
	activebool	BOOLEAN	True/False response for if customer is active
	create_date	DATE	Date customer account created
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update
	active	INTEGER	0 or 1 indicates customer's active status

Links To:

Table	Join
address	customer.address_id = address.address_id

Links From:

Table	Join
payment	payment.customer_id = customer.customer_id
rental	rental.customer_id = customer.customer_id

4.10 Store

	Columns	Data Type	Description
⌐	store_id	INTEGER	# assigned to each store
↗	manager_staff_id	SMALLINT	# assigned to each manager
↗	address_id	SMALLINT	# assigned to each store address
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links To:

Table	Join
staff	store.address_id = staff.address_id
address	store.address_id = address.address_id

4.11 Address

	Columns	Data Type	Description
⌐	address_id	INTEGER	# assigned to each address for store, staff member, and customer
	address	CHARACTER VARYING (50)	Street address
	address2	CHARACTER VARYING (50)	2nd part of address for apartment #'s, etc
	district	CHARACTER VARYING (20)	State, province or territory
↗	city_id	SMALLINT	# assigned to each city
	postal_code	CHARACTER VARYING (10)	Postal code for each address
	phone	CHARACTER VARYING (20)	Phone number for each address
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links To:

Table	Join
city	address.city_id = city.city_id

Links From:

Table	Join
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff_id
store	store.address_id = staff.address_id

4.12 City

|	Columns	Data Type	Description
⌐	city_id	INTEGER	# assigned to each city
	city	CHARACTER VARYING (50)	Name of city
↗	country_id	SMALLINT	# assigned to each country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links To:

Table	Join
country	city.country_id = country.country_id

Links From:

Table	Join
address	address.city_id = city.city_id

4.13 Country

	Columns	Data Type	Description
🔑	country_id	INTEGER	# assigned to each country
	city	CHARACTER VARYING (50)	Name of country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of last table update

Links From:

Table	Join
city	city.country_id = country.country_id