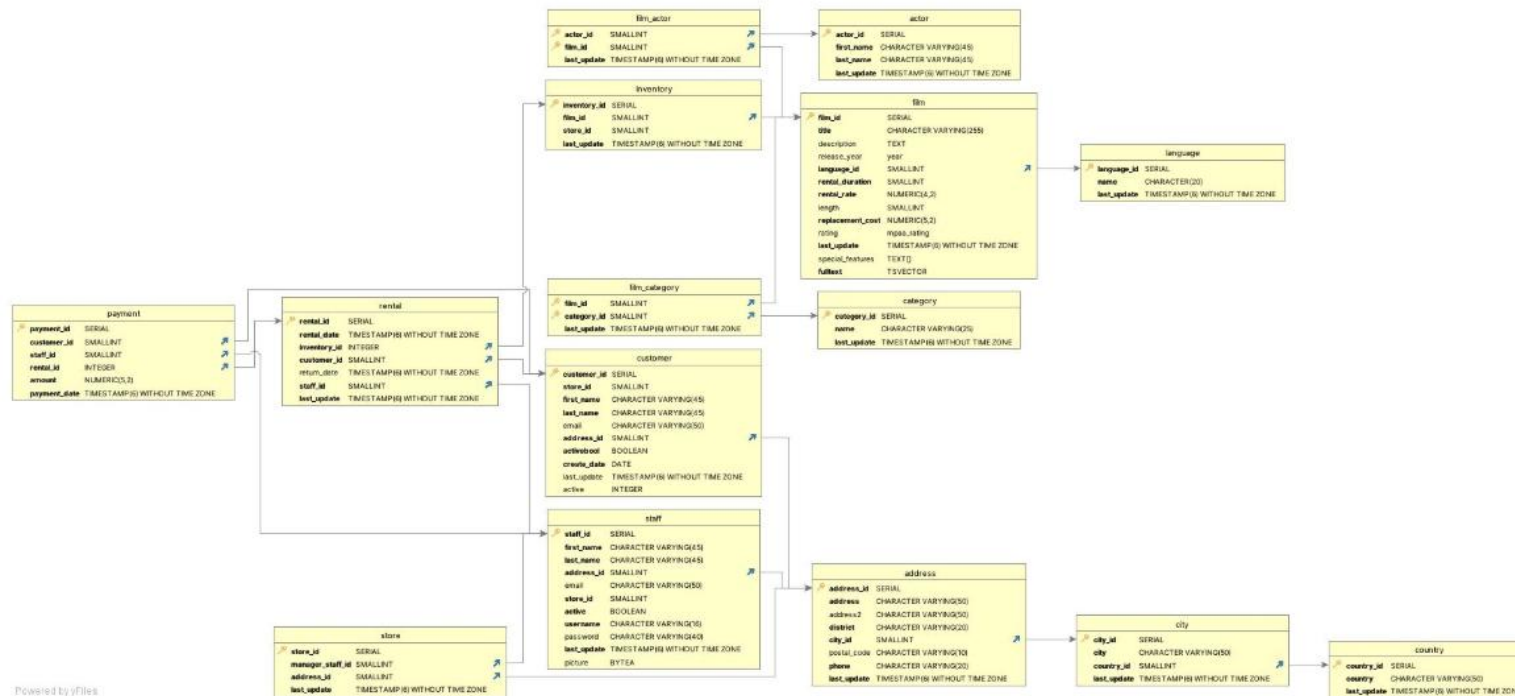# 3.10 Rockbuster Stealth LLC
Data Dictionary

ERD – Entity Relationship Diagram

Data dictionary PK = primary key FK = foreign key
Fact tables:

rental

Columns	Data Type	Description
rental_id (PK)	SERIAL / INTEGER	Unique ID of a rental
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental
inventory_id (FK)	INTEGER	Unique ID of an inventory (each film in each store)
customer_id (FK)	SMALLINT	Unique ID of a customer
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental return
staff_id (FK)	SMALLINT	Unique ID of employee
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	inventory customer staff	rental.inventory_id = inventory.inventory_id rental.customer_id = customer.customer_id rental.staff_id = staff.staff_id
Links from	payment	payment.rental_id = rental.rental_id

payment

Columns	Data Type	Description
payment_id (PK)	SERIAL / INTEGER	Unique of a payment
customer_id (FK)	SMALLINT	Unique ID of a customer
staff_id (FK)	SMALLINT	Unique ID of employee
rental_id (FK)	SERIAL	Unique ID of a rental
amount	NUMERIC	Amount paid
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of payment

		Unique keys
Links to	customer staff rental	payment.customer_id = customer.customer_id payment.staff_id = staff.staff_id payment.rental_id = rental.rental_id
Links from	-	

Dimension tables:

inventory

Columns	Data Type	Description
inventory_id (PK)	SERIAL / INTEGER	Unique ID of an inventory (each film in each store)

film_id (FK)	SMALLINT	Unique ID of a movie
store_id	SMALLINT	Unique ID of a store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	film	inventory.film_id = film.film_id
Links from	rental	rental.inventory_id = inventory.inventory_id

customer

Columns	Data Type	Description
customer_id (PK)	SERIAL / INTEGER	Unique ID of a CUSTOMER
store_id	SMALLINT	Unique ID of a store
first_name	CHARACTER VARYING(45)	Customer's first name
last_name	CHARACTER VARYING(45)	Customer's last name
email	CHARACTER VARYING(50)	Customer's email address
address_id (FK)	SMALLINT	Customer's address ID
activebool	BOOLEAN	Boolean field for customer's activity status
create_date	DATE	Customer's account creation date
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record
active	INTEGER	0-1 field for customer's activity status

		Unique keys
Links to	address	customer.address_id = address.address_id
Links from	payment	payment.customer_id = customer.customer_id
	rental	rental.customer_id = customer.customer_id

staff

Columns	Data Type	Description
staff_id (PK)	SERIAL / SMALLINT	Unique ID of employee
first_name	CHARACTER VARYING(45)	Employee's first name
last_name	CHARACTER VARYING(45)	Employee's last name
address_id (FK)	SMALLINT	Employee's address ID
email	CHARACTER VARYING(50)	Employee's email address
store_id	SMALLINT	Unique ID of a store
active	BOOLEAN	Boolean field for employee's activity status
username	CHARACTER VARYING(16)	Employee's username
password	CHARACTER VARYING(40)	Employee's password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record
picture	BYTEA	Employee's picture

		Unique keys
Links to	address	staff.address_id = address.address_id
Links from	payment rental store	payment.staff_id = staff.staff_id rental.staff_id = staff.staff_id store.staff_id= staff.staff_id

actor

Columns	Data Type	Description
actor_id (PK)	SERIAL / INTEGER	Unique actor's ID
first_name	CHARACTER VARYING(45)	Actor's first name
last_name	CHARACTER VARYING(45)	Actor's last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	-	-
Links from	film_actor	film_actor.actor_id = actor.actor_id

film

Columns	Data Type	Description
film_id (PK)	SERIAL / INTEGER	Unique ID of a movie
title	CHARACTER VARYING(255)	Movie title
description	TEXT	Film description
release_year	INTEGER	Release year of a movie
language_id (FK)	SMALLINT	Film language ID
rental_duration	SMALLINT	Duration of rental in days
rental_rate	NUMERIC(4,2)	Costs of film rental
length	SMALLINT	Film length in minutes
replacement_cost	NUMERIC(5,2)	Film replacement costs
rating	mpaa_rating	Rating of film's suitability for certain audiences based on its content
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record
special_features	TEXT[]	Extra content description
fulltext	TSVECTOR	Lexems optimized for querying the film associations

	Unique keys	
Links to	language	film.language_id = language.language_id
Links from	film_actor inventory film_category	film_actor.film_id = film.film_id inventory.film_id = film.film_id film_category.film_id = film.film_id

film_actor

Columns	Data Type	Description
actor_id (PK)	SMALLINT	Unique actor's ID
film_id (PK)	SMALLINT	Unique ID of a movie

last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

	Unique keys	
Links to	actor film	film_actor.actor_id = actor.actor_id film_actor.film_id = film.film_id
Links from	-	-

film_category

Columns	Data Type	Description
film_id (PK)	SMALLINT	Unique ID of a movie
category_id (PK)	SMALLINT	Film category ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	film category	film_category.film_id = film.film_id film_category.category_id = category.category_id
Links from	-	-

language

Columns	Data Type	Description
language_id (PK)	SERIAL / SMALLINT	Film language ID
name	CHARACTER(20)	Language name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	-	-
Links from	film	film.language_id = language.language_id

category

Columns	Data Type	Description
category_id (PK)	SERIAL / INTEGER	Film category ID
name	CHARACTER VARYING(25)	Film category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	-	-
Links from	film_category	film_category.category_id = category.category_id

category

store

Columns	Data Type	Description
store_id (PK)	SERIAL / INTEGER	Unique ID of a store
manager_staff_id (FK)	SMALLINT	Store's manager ID

address_id (FK)	SMALLINT	Store's address ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	staff address	store.manager_staff_id = staff.manager_staff_id store.address_id = address.address_id
Links from	-	-

address

Columns	Data Type	Description
address_id (PK)	SERIAL / INTEGER	Unique address ID
address	CHARACTER VARYING(50)	Address
address2	CHARACTER VARYING(50)	Address's second lane
district	CHARACTER VARYING(20)	Region name
city_id (FK)	SMALLINT	ID of a city
postal_code	CHARACTER VARYING(10)	Postal code
phone	CHARACTER VARYING(20)	Phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	city	address.city_id = city.city_id
Links from	customer staff store	customer.address_id = address.address_id staff.address_id = address.address_id store.address_id = address.address_id

city

Columns	Data Type	Description
city_id (PK)	SERIAL / SMALLINT	ID of a city
city	CHARACTER VARYING(50)	City name
country_id (FK)	SMALLINT	Country ID
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record

		Unique keys
Links to	country	city.country_id = country.country_id
Links from	address	address.city_id = city.city_id

country

Columns	Data Type	Description
country_id (PK)	SERIAL / SMALLINT	Country ID
country	CHARACTER VARYING(50)	Country name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the record