



# ROCKBUSTER

Data Dictionary

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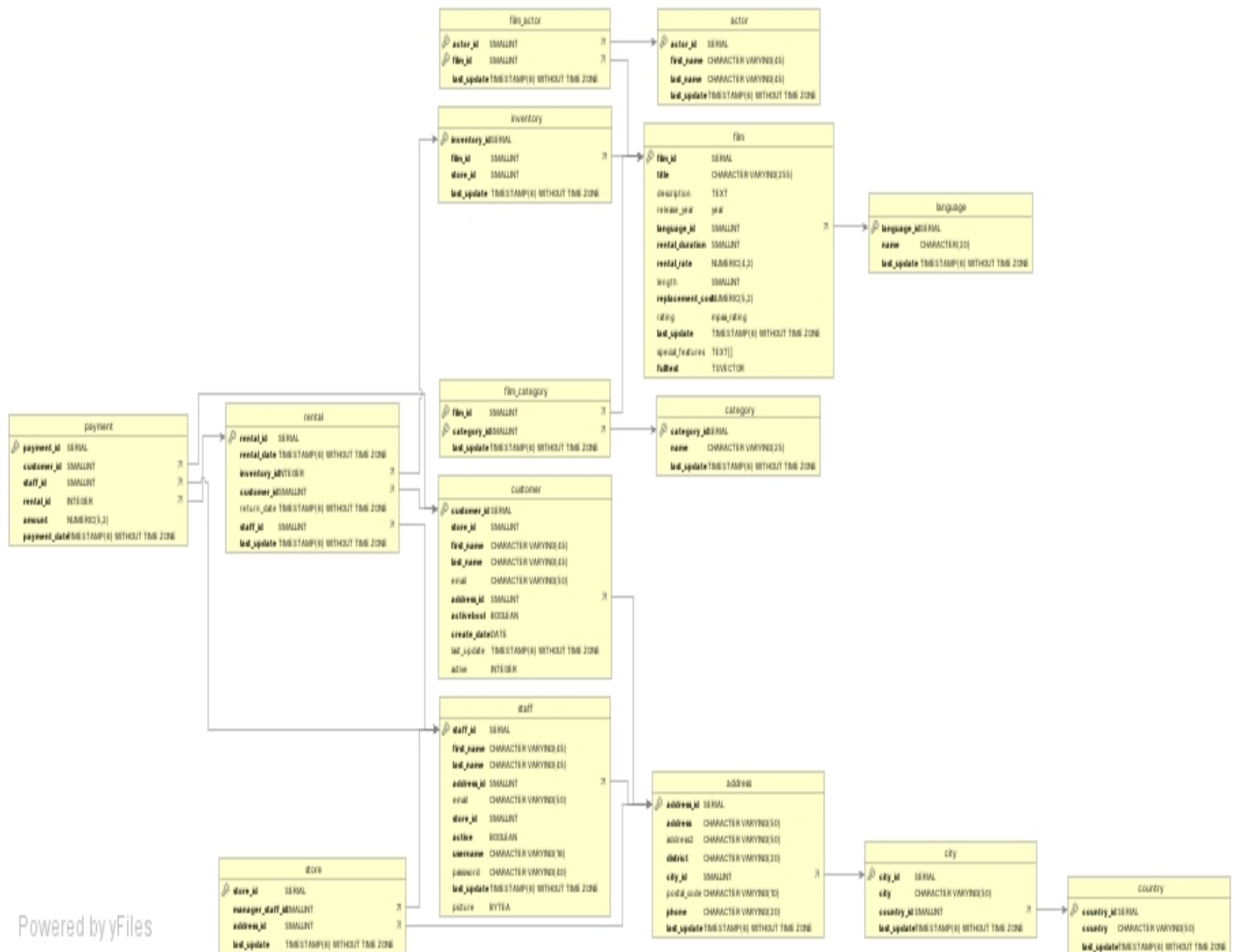
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## Overview

The Rockbuster database, designed to manage and store business information for the video rental company Rockbuster, is a relational database with a snowflake schema. This database consists of numerous tables related to various aspects such as payment, rental, customer, film, actor, inventory, and more.

On the leftmost side of the schema, two fact tables, rental and payment, serve as the central points from which dimension tables, such as inventory and customer, branch out. These dimension tables are further connected to sub-dimension tables. Given the extensive number of tables within this database, a wealth of information can be derived, providing valuable insights into Rockbuster's business operations and customer behaviors.


# Entity Relation Diagram (ERD)



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## Fact Tables


### Payment

Key	Columns	Data Type	Description
	Payment_id	Serial	Identification number assigned to each payment
	Customer_id	Smallint	Identification number assigned to each customer
	Staff_id	Smallint	Identification number assigned to each staff
	Rental_id	Integer	Identification number assigned to each rental
	Amount	Numeric (5,2)	Amount paid for rental by customer
	Payment_date	Timestamp(6) without time zone	Date of payment

### Payment Links

Links To	Links From
Rental, Customer, Staff	N/A

### Rental


Key	Columns	Data Type	Description
	Rental_id	Serial	Identification number assigned to each rental
	Rental_date	Timestamp(6) without time zone	Date of rental
	Inventory_id	Integer	Identification number assigned for record keeping of stock
	Customer_id	Smallint	Identification number assigned to each customer when rental issued
	Return_date	Timestamp(6) without time zone	Date of rental return
	Staff_id	Smallint	Identification number assigned to each staff member
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## Rental Links

Links To	Links From
Inventory, Customer, Staff	Payment

## Dimension Table


### Actor

Key	Columns	Data Type	Description
	Actor_id	Serial	Identification number 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 record last updated

### Actor Links

Links To	Links From
N/A	Film_Actor


### Address

Key	Columns	Data Type	Description
	Address_id	Serial	Identification number assigned to each store address
	Address	Character varying (50)	Address of Store
	Address2	Character varying (50)	Additional address of Store
	District	Character varying (20)	District of store
	City_id	Smallint	Identification number assigned to city of store
	Postal_code	Character varying (10)	Postal code of city of store
	Phone	Character varying (20)	Store phone number
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## Address Links

Links To	Links From
City	Customer, Staff, Store


## Category

Key	Columns	Data Type	Description
	Catgeory_id	Serial	Identification number assigned to the category the film falls under
	Name	Character Varying (20)	Name of category
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## Category Links

Links To	Links From
N/A	Film_Category


## City

Key	Columns	Data Type	Description
	City_id	Serial	Identification number assigned to each city
	City	Character Varying (50)	Name of city
	Country_id	Smallint	Identification number assigned to each country
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## City Links

Links To	Links From
Country	Address

## Country


Key	Columns	Data Type	Description
	Country_id	Serial	Identification number assigned to each country
	Country	Character Varying (50)	Name of country
	Last_update	Timestamp(6) without time zone	Date and time of record last updated



## Country Links

Links To	Links From
N/A	City


## Customer

	Columns	Data Type	Description
	Customer_id	Serial	Identification number assigned to each customer
	Store_id	Smallint	Identification number 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 address of customer
	Address_id	Smallint	Postal address of customer
	Activebool	Boolean	Status of whether an customer is still active or not
	Create_date	Date	Date of when a customer's account was created
	Last_update	Timestamp(6) without time zone	Date and time of record last updated
	Active	Integer	Status of customer

## Customer Links

Links To	Links From
Address	Payment, Rental



## Film

Key	Columns	Data Type	Description
	Film_id	Serial	Identification number assigned to each film
	Title	Character Varying (255)	Title of film
	Description	Text	Description of what film is about
	Release_year	Year	The year the film was released
	Language_id	Smallint	Identification number assigned to the language the film is available in
	Rental_duration	Smallint	Length of the time that film was rented out for
	Rental_rate	Numeric (4,2)	Cost to rent film
	Length	Smallint	Length of film in minutes
	Replacement_cost	Numeric (5,2)	Cost to replace film if lost, damaged, stolen
	Rating	Mpaa_rating	Rating of film
	Last_update	Timestamp(6) without time zone	Date and time of record last updated
	Special_features	Text []	Any special features included in film (CC, sign language)
	Fulltext	TSVECTOR	Keywords associated with film

## Film Links

Links To	Links From
Language	Film_Actor, Film_category, Inventory



## Film\_Actor

Key	Columns	Data Type	Description
	Actor_id	Smallint	Identification number assigned to each actor
	Film_id	Smallint	Identification number assigned to each film
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## Film\_Actor Links

Links To	Links From
Actor	N/A


## Film\_Category

Key	Columns	Data Type	Description
	Film_id	Smallint	Identification number assigned to each film
	Category_id	Smallint	Number assigned to each category of film
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## Film\_Category Links

Links To	Links From
Category, Film	N/A


## Inventory

Key	Columns	Data Type	Description
	Inventory_id	Serial	Identification number assigned for record keeping of stock
	Film_id	Smallint	Identification number assigned to each film
	Store_id	Smallint	Identification number assigned to each store
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## Inventory Links

Links To	Links From
Film	Rental


## Language

Key	Columns	Data Type	Description
	Language_id	Serial	Identification number assigned to the language the film is available in
	Name	Character (20)	Name of language
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## Language Links

Links To	Links From
N/A	Film


## Staff

Key	Columns	Data Type	Description
	Staff_id	Serial	Identification number assigned to each staff member
	First_name	Character Varying (45)	First name of staff
	Last_name	Character Varying (45)	Last name of staff
	Address_id	Smallint	Postal address of staff
	Email	Character varying (50)	Email address of staff
	Store_id	Smallint	Identification number assigned to each store
	Active	Boolean	Status of whether an employee is still active or not (current employee vs previous employee)
	Username	Character varying (16)	Staff username
	Password	Character varying (40)	Password staff use in conjunction with username to login
	Last_update	Timestamp(6) without time zone	Date and time of record last updated
	Picture	Bytea	Picture of staff member

## Staff Links

Links To	Links From
Address	Payment, Rental, Store

## Store

Key	Columns	Data Type	Description
	Store_id	Serial	Identification number assigned to each store
	Manager_staff_id	Smallint	Identification number assigned to manager
	Address_id	Smallint	Postal address of store
	Last_update	Timestamp(6) without time zone	Date and time of record last updated

## Store Links

Links To	Links From
Address, Staff	N/A