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Rockbuster

Data Dictionary



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CAREER FOUNDRY A3 E10

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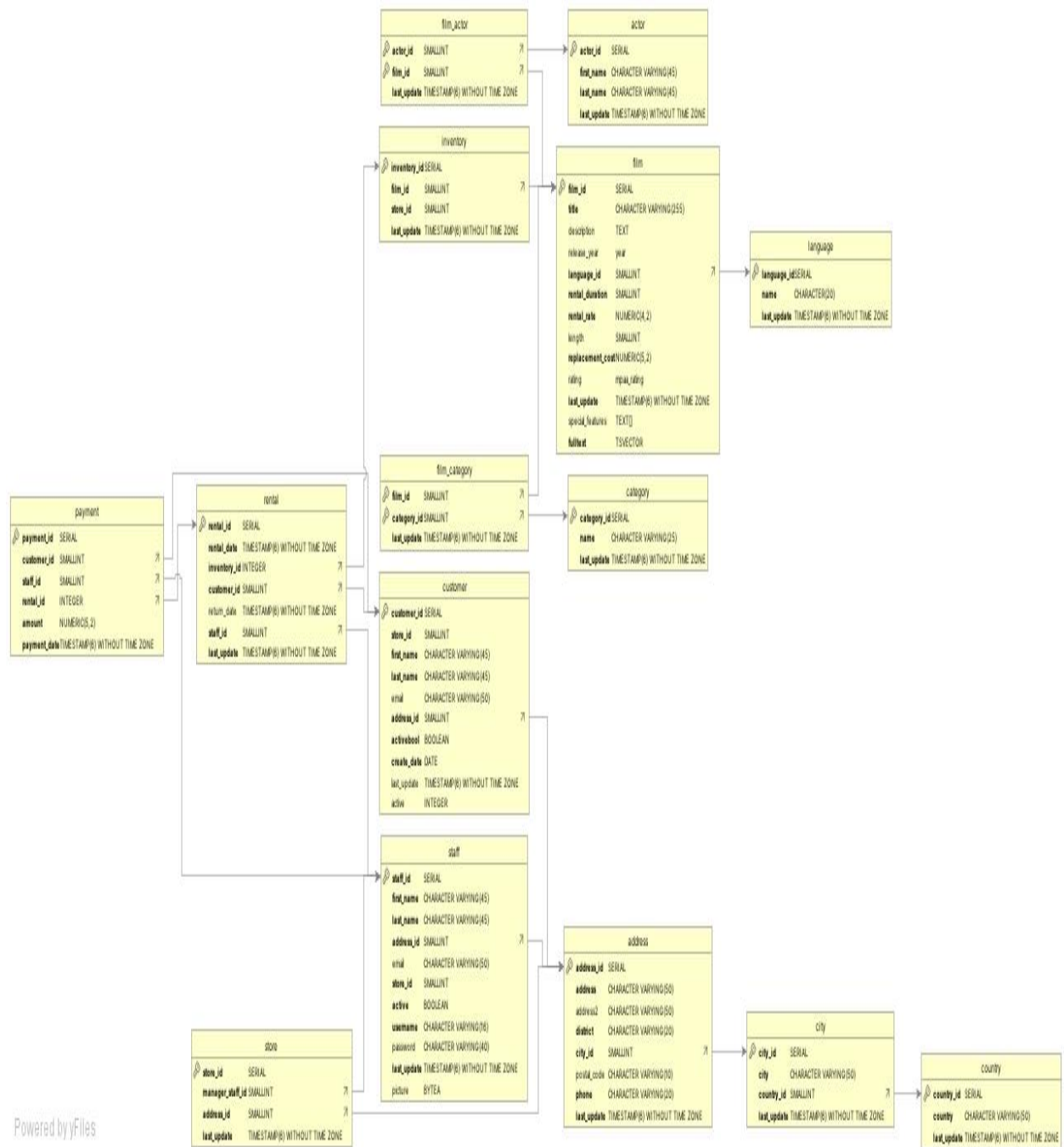
Overview

The Rockbuster database, with the function of managing and storing business information for the video rental company Rockbuster, is a relational database with a snowflake schema.

The database includes many relations for various tables such as payment, rental, customer, film, actor, inventory and other related aspects.


On the left most side of the schema, there are two fact tables: rental and payment. These tables are then branched off of by dimension tables like inventory and customer, which are further surrounded by sub-dimension tables. Due to the many tables making up this database, there is a myriad of information from which insights around Rockbuster's business and customers can be inferred.

Entity Relation Diagram (ERD)



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