2023

Rockbuster

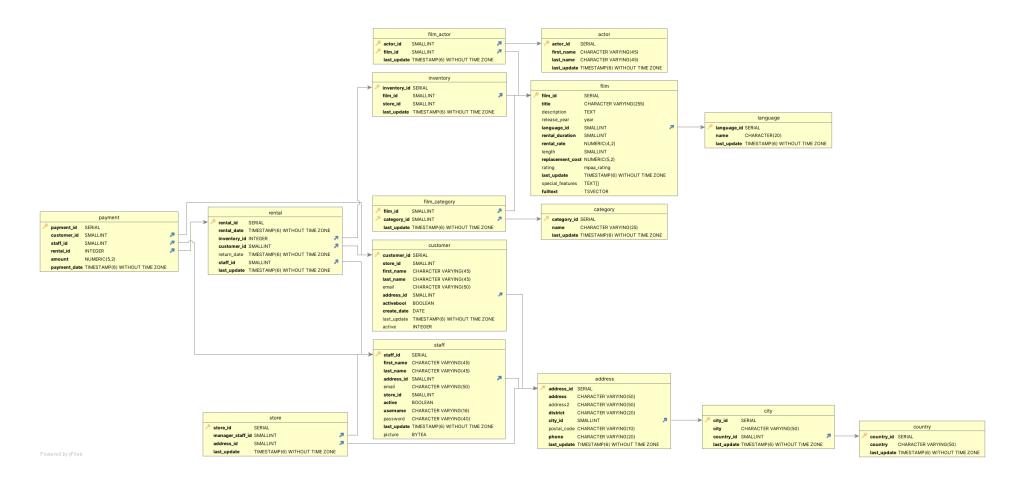Data Dictionary

Heather Visentin

Table of Contents

Primary Key: PK
Foreign Key: FK

1. Entity Relationship Diagram

2. Fact Tables

2.1 Payment Table

Columns

Unique Key	Name	Data Type	Description
PK	Payment_id	Serial	Unique identifier for payment
FK	Customer_id	Small int	Unique identifier for customer
FK	Staff_id	Small int	Unique identifier for staff
FK	Rental_id	Integer	Unique identifier for rental
	Amount	Numeric(5,2)	Amount of payment received
	Payment_date	Timestamp(6) without time zone	Time and date of payment

Links to

Table	Description
Customer	Foreign key reference to customer table
Staff	Foreign key reference to staff table
Rental	Foreign key reference to rental table

2.2 Rental Table

Columns

Unique Key	Name	Data Type	Description
PK	Rental_id	Serial	Unique identifier for rental
	Rental_date	Timestamp(6) without time zone	Time and date of rental
FK	Inventory_id	Integer	Unique identifier for inventory
FK	Customer_id	Smallint	Unique identifier for customer
	Return_date	Timestamp(6) without time zone	Time and date of return
FK	Staff_id	Smallint	Unique identifier staff
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links to

Table	Description
Inventory	Foreign key reference to inventory table
Customer	Foreign key reference to customer table
Staff	Foreign key reference to staff table

Links from

Table	Description
Payment	Foreign key reference to payment table

3. Dimension Tables

3.1 Film_actor Table

Columns

Unique Key	Column	Data Type	Description
PK/FK	Actor_id	Smallint	Unique identifier of actor
PK/FK	Film_id	Smallint	Unique identifier of film
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links to

Table	Description
Actor	Foreign key reference to actor table
Film	Foreign key reference to film table

3.2 Inventory Table

Columns

Unique Key	Column	Data Type	Description
PK	Inventory_id	Serial	Unique identifier of inventory
FK	Film_id	Smallint	Unique identifier of film
	Store_id	Smallint	Unique identifier of store
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links to

Table	Description
Film	Foreign key reference to film table

Links from

Table	Description
Rental	Foreign key reference to rental table

3.3 Film_category Table

Columns

Unique Key	Column	Data Type	Description
PK/FK	Film_id	Smallint	Unique identifier of film
PK/FK	Category_id	Smallint	Unique identifier of category
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links to

Table	Description
Category	Foreign key reference to category table
Film	Foreign key reference to film table

3.4 Customer Table

Column

Unique Key	Column	Data Type	Description
PK	Customer_id	Serial	Unique identifier of customer
	Store_id	Smallint	Unique identifier of 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
FK	Address_id	Smallint	Unique identifier of address
	Activebool	Boolean	If customer is active
	Create_date	Date	Date customer profile was creator
	Last_update	Timestamp(6) without time zone	Time and date of last update
	Active	Integer	Active status represented by 0 or 1

Links to

Table	Description
Address	Foreign key reference to address table

Links from

Table	Description
Payment	Foreign key reference to payment table
Rental	Foreign key reference to rental table

3.5 Staff Table

Unique Key	Column	Data Type	Description
PK	Staff_id	Serial	Unique identifier of staff
	First_name	Character varying(45)	First name of customer
	Last_name	Character varying(45)	Last name of customer
FK	Address_id	Smallint	Unique identifier of address
	Email	Character varying(50)	Email address of customer
	Store_id	Smallint	Unique identifier of store
	Active	boolean	Status of current employment
	Username	Character varying(16)	Staff member's username
	Password	Character varying(40)	Staff member's password
	Last_update	Timestamp(6) without time zone	Time and date of last update
	Picture	Bytea	Picture of staff member

Links to

Table	Description
Address	Foreign key reference to address table

Links from

Table	Description
Payment	Foreign key reference to payment table
Rental	Foreign key reference to rental table
Store	Foreign key reference to store table

3.6 Store Table

Column

Unique Key	Column	Data Type	Description
PK	Store_id	Serial	Unique identifier of store
FK	Manager_staff_id	Smallint	Unique identifier of manager
FK	Address_id	Smallint	Unique identifier of address
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links to

Table	Description
Staff	Foreign key reference to staff table
Address	Foreign key reference to address table

3.7 Actor Table

Column

Unique Key	Column	Data Type	Description
PK	Actor_id	serial	Unique identifier of 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	Time and date of last update

Links from

Table	Description
Film_actor	Foreign key reference to film_actor table

3.8 Film Table

Column

Unique Key	Column	Data Type	Description
PK	Film_id	serial	Unique identifier of film
	Title	Character varying(255)	Title of film
	Description	Text	Description of film
	Release_year	Year	Year film was released
FK	Language_id	Smallint	Unique identifier of language
	Rental_duration	Smallint	Duration of rental
	Rental_rate	Numeric(4,2)	Cost of rental
	Length	Smallint	Length of film
	Replacement_cost	Numeric(5,2)	Cost to replace
	Rating	Mpaa_rating	Rating of film
	Last_update	Timestamp(6) without time zone	Time and date of last update
	Special_features	Text[]	Special features of film
	Fulltext	Tsvector	Film index

Links to

Table	Description
Language	Foreign key reference to language table

Links from

Table	Description
Film_actor	Foreign key reference to film_actor table
Inventory	Foreign key reference to inventory table
Film_category	Foreign key reference to film_category table

3.9 Category Table

Column

Unique Key	Column	Data Type	Description
PK	Category_id	Serial	Unique identifier of category
	Name	Character varying(25)	Name of category
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links from

Table	Description
Film_category	Foreign key reference to film_category table

3.10 Address Table

Column

Unique Key	Column	Data Type	Description
PK	Address_id	Serial	Unique identifier of address
	Address	Character varying(50)	First line of address
	Address2	Character varying(50)	Second line of address
	District	Character varying(20)	District of address
FK	City_id	Smallint	Unique identifier of city
	Postal_code	Character varying(10)	Postal code for address
	Phone	Character varying(20)	Phone number for address
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links to

Table	Description
city	Foreign key reference to city table

Links from

Table	Description
Customer	Foreign key reference to customer table
Staff	Foreign key reference to staff table
Store	Foreign key reference to store table

3.11 Language Table

Column

Unique Key	Column	Data Type	Description
PK	Language_id	Serial	Unique identifier of language
	Name	Character(20)	Name of language
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links from

Table	Description
Film	Foreign key reference to film table

3.12 City Table

Column

Unique Key	Column	Data Type	Description
PK	City_id	serial	Unique identifier of city
	City	Character varying(50)	Name of city
FK	Country_id	Smallint	Unique identifier of country
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links to

Table	Description
Country	Foreign key reference to country table

Links from

Table	Description
Address	Foreign key reference to address table

3.13 Country Table

Column

Unique Key	Column	Data Type	Description
PK	Country_id	serial	Unique identifier of country
	Country	Character varying(50)	Name of country
	Last_update	Timestamp(6) without time zone	Time and date of last update

Links from

Table	Description
City	Foreign key reference to city table