

Rockbuster Stealth LLC

Data Dictionary 2023

By Rick Takeuchi

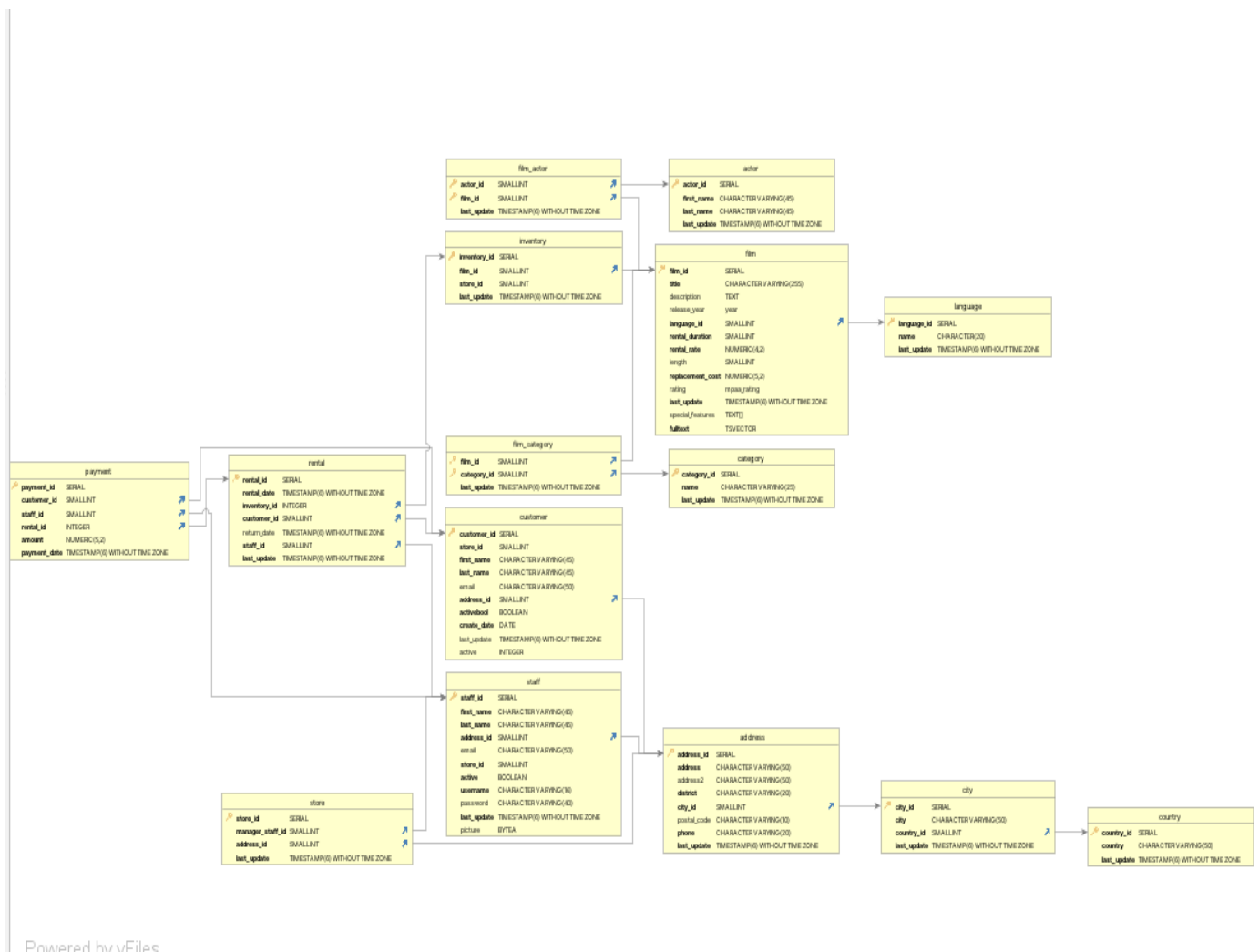
Table of Content

Table of Contents.....	Error! Bookmark not defined.
1. Entity Relationship Diagram (ERD) (ERD).....	3
2. Fact Tables.....	4
2.1. Payment Table	4
2.2. Rental Table	4
3. Dimension tables:	5
3.1. Address Table	5
3.2. Category Table	5
3.3. City Table	6
3.4. Country Table	6
3.5. Customer Table	7
3.6. Film_actor Table	7
3.7. Film_category Table	8
3.8. Inventory Table	8
3.9. Language Table	8
3.10. Staff Table	9
3.11. Film Table	10
3.12. Store Table	11
3.13. Actor Table	11

1) Entity Relationship Diagram

Rockbuster Stealth LLC Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. The Rockbuster management team plans on using their existing movie licenses to launch an online video rental service. The relational database management system utilized for the Rockbuster database was Postgres through PGAdmin.

ENTITY RELATIONSHIP DIAGRAM OF DATA DICTIONARY



2) Fact Tables:

1) Payment Table

Unique Key	Columns	Data Type	Description
PK	payment_id	SERIAL	Unique Payment Identifier
FK	customer_id	SMALLINT	Unique Customer Identifier
FK	staff_id	SMALLINT	Unique Staff Identifier
FK	rental_id	INTERGER	Unique Rental Identifier
	amount	NUMERIC(5,2)	Amount of Received Payment
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	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) Rental Table

Unique Key	Columns	Data Type	Description
PK	rental_id	SERIAL	Unique Rental Identifier
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of Rental
FK	inventory_id	INTERGER	Unique Inventory Identifier
FK	customer_id	SMALLINT	Unique Customer Identifier
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of Return
FK	staff_id	SMALLINT	Unique Staff Identifier
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time 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

Dimension Tables:

1) Address Table

Unique Key	Columns	Data Type	Description
PK	address_id	SERIAL	Unique Address Identifier
	address	CHARACTER VARYING(50)	First Address Line
	address2	CHARACTER VARYING(50)	Second Address Line
	district	CHARACTER VARYING(20)	District of Address
FK	city_id	SMALLINT	City Location
	postal_code	CHARACTER VARYING(10)	Zip Code of Address
	phone	CHARACTER VARYING(20)	Phone Number of Address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time 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

2) Film Category Table

Unique Key	Columns	Data Type	Description
	film_id	SMALLINT	Unique Film Identifier
PK	category_id	SMALLINT	Unique Category Identifier
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update

Links From:

Table	Description
film_category	Foreign key reference to film_category table

3) City Table

Unique Key	Columns	Data Type	Description
PK	city_id	SERIAL	City Unique ID
	city	CHARACTER(50)	City Name
FK	country_id	SMALLINT	Country Unique ID
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time 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

4) Country Table

Unique Key	Columns	Data Type	Description
PK	country_id	SMALLINT	Country Unique ID
	country	CHARACTER(50)	Country Name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update

Links From:

Table	Description
City	Foreign key reference to city table

5) Customer Table

Unique Key	Columns	Data Type	Description
PK	customer_id	SERIAL	Unique Customer Identifier
	store_id	SMALLINT	Unique Store Identifier
	first_name	CHARACTER VARYING(45)	Customer First Name
	last_name	CHARACTER VARYING(45)	Customer Last Name
	email	CHARACTER VARYING(50)	Customer Email Address
FK	address_id	SMALLINT	Unique Address Identifier
	activebool	BOOLEAN	Whether Customer is Active
	create_date	DATE	Date of Customer Profile Creation
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update
	active	INTERGER	Active status 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

6) Film_actor Table

Unique Key	Columns	Data Type	Description
PK/FK	actor_id	SMALLINT	Unique Actor Identifier
PK/FK	film_id	SMALLINT	Unique Film Identifier
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update

Links To:

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

7) Film_category Table

Unique Key	Columns	Data Type	Description
PK/FK	category_id	SMALLINT	Unique Category Identifier
PK/FK	film_id	SMALLINT	Unique Film Identifier
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update

Links To:

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

8) Inventory Table

Unique Key	Columns	Data Type	Description
PK	inventory_id	SERIAL	Unique Inventory Identifier
FK	film_id	SMALLINT	Unique Film Identifier
	store_id	SMALLINT	Unique Store Identifier
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time 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

9) Language Table

Unique Key	Columns	Data Type	Description
PK	language_id	SERIAL	Film Language
	name	CHARACTER(45)	Language Name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update

Links From:

Table	Description
Film	Foreign key reference to film table

10) Staff Table

Unique Key	Columns	Data Type	Description
PK	staff_id	SERIAL	Unique Staff Identifier
	first_name	CHARACTER VARYING(45)	Staff First Name
	last_name	CHARACTER VARYING(45)	Staff Last Name
FK	address_id	SMALLINT	Unique Address Identifier
	email	CHARACTER VARYING(50)	Staff Email Address
	store_id	SMALLINT	Unique Store Identifier
	active	INTERGER	Active status by 0 or 1
	username	CHARACTER VARYING(45)	Staff Username
	password	CHARACTER VARYING(45)	Staff Password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update
	picture	BYTEA	Staff picture

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

11) Film Table

Unique Key	Columns	Data Type	Description
PK	film_id	SERIAL	Unique Film Identifier
	title	CHARACTER VARYING (255)	Film Title
	description	TEXT	Film Description
	release_year	year	Year of Film Release
FK	language_id	SMALLINT	Film Language
	rental_duration	SMALLINT	Film Rental Duration
	rental_rate	NUMERIC (4,2)	Rental Rate of Film
	length	SMALLINT	Length of Film
	replacement_cost	NUMERIC (4,2)	Film Replacement Cost
	rating	mpaa_rating	Film MPAA Rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update
	special_features	TEXT[]	Special Features of Film
	fulltext	TSVECTOR	Film Index; contains key words count

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

12) Store Table

Unique Key	Columns	Data Type	Description
PK	store_id	SERIAL	Unique Store Identifier
FK	manager_staff_id	SMALLINT	Unique Manager Identifier
FK	address_id	SMALLINT	Unique Address Identifier
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update

Links To:

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

13) Actor Table

Unique Key	Columns	Data Type	Description
PK	actor_id	SERIAL	Unique Actor Identifier
	first_name	CHARACTER VARYING(45)	Actor First Name
	last_name	CHARACTER VARYING(45)	Actor Last Name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of Last Update

Links From:

Table	Description
Film_actor	Foreign key reference to film_actor table