

Data Dictionary

2023

FEBRUARY 8 2023

Rockbuster Stealth

Authored by: Mnguni Zulu



Rockbuster
Movie Rentals R' Us

Table of Contents

Table of

Contents.....Error!

Bookmark not defined.

Rockbuster Stealth.....3

ERD Diagram.....4

Fact Tables

i. Fact Tables.....5

a) Payments.....5

b) Rentals.....5

ii. Dimension Tables.....6

a) Actor.....6

b) Address.....6

c) Category.....7

d) City.....7

e) Country.....7

f) Customer.....8

g) Film.....8

h) Film Actor.....9

i) Film Category.....9

j) Inventory.....9



k) Language.....10

l) Staff.....10

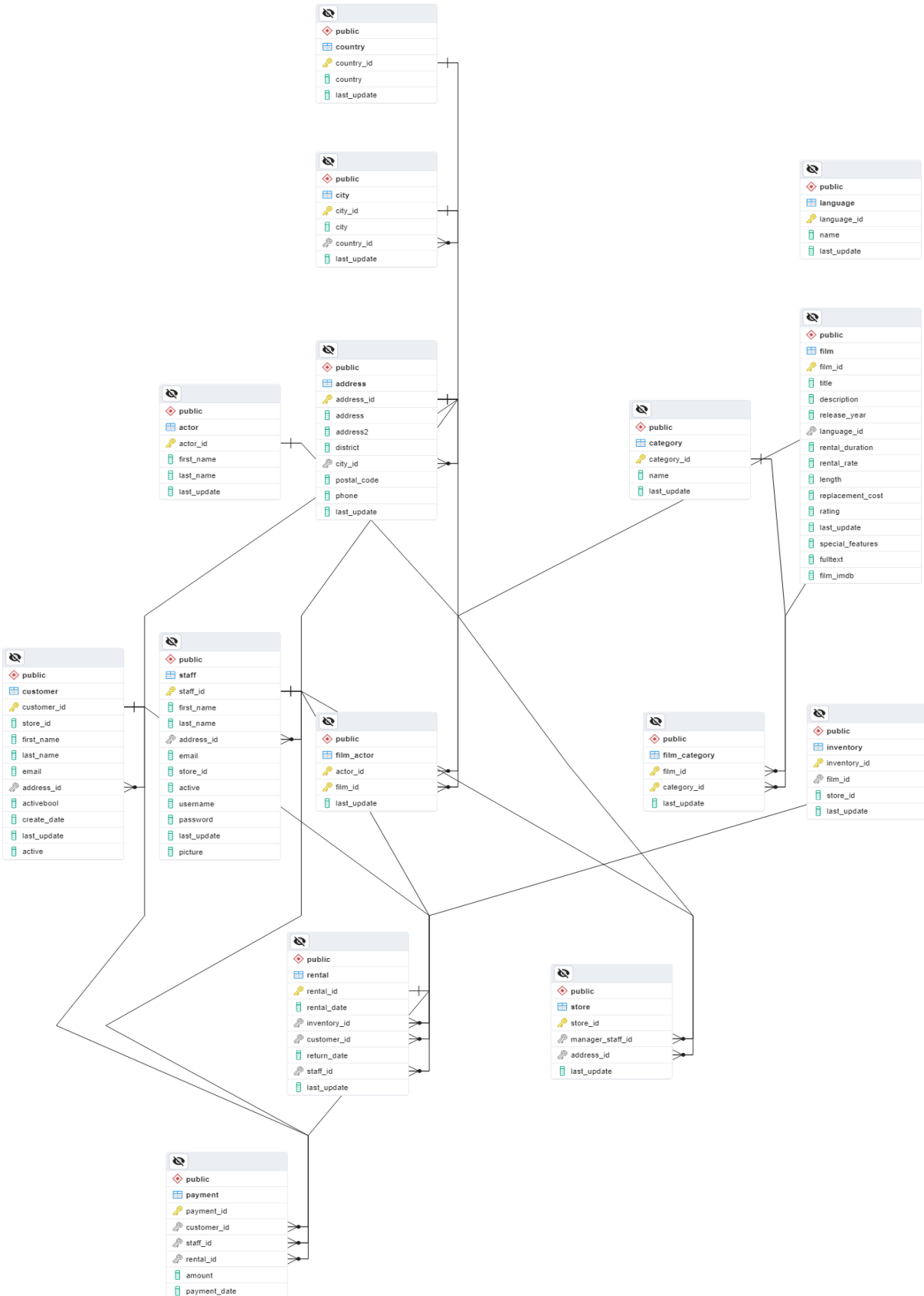
m) Store.....11

Rockbuster Stealth

Rockbuster Stealth is a fictional enterprise whose business is the rental of movies to customers in over 180 countries around the globe. The schema of the Entity Relational Database follows a snowflake distribution, where tables lead to further tables (similar to sub-categories).





LEGEND	
	Primary Key
	Foreign Key

Rockbuster Stealth Entity Relationship Diagram (ERD)



Fact Tables





i. Payments

	Columns	Data Type	Description
	payment_id	SERIAL	Number assigned to transaction
	customer_id	SMALLINT	Number assigned to customer
	staff_id	SMALLINT	Number assigned to staff member
	rental_id	INTEGER	Number assigned to rental transaction
	amount	SMALLINT	Amount paid by customer
	payment_date	NUMERIC (5,2)	Number assigned to payment transaction

Links to:

Tables	Join
Customer	Payment.customer_id = Customer.customer_id
Staff	Payment.staff_id = Staff.staff_id
Rental	Payment.rental_id = Rental.rental_id

ii. Rentals

	Columns	Data Type	Description
	Rental_id	SERIAL	Number assigned to transaction
	Rental_date	TIME STAMP(6) WITHOUT TIME ZONE	date + time of rental
	Inventory_id	INTEGER	Number assigned to film
	Customer_id	SMALLINT	Number assigned to customer
	Return_date	TIME STAMP(6) WITHOUT TIME ZONE	date + time of return
	Staff_id	SMALLINT	Number assigned to staff member
	Last_update	TIME STAMP(6) WITHOUT TIME ZONE	date + time of most recent update

Links to:


Tables	Join
Inventory	Rental.inventory_id = Inventory.inventory_id
Customer	Rental.customer_id = Customer.customer_id
Staff	Rental.staff_id = Staff.staff_id

Links from:

Tables	Join
Payment	Payment.rental_id = Rental.rental_id

Dimension Tables (14)



i. Actor

	Columns	Data Type	Description
	Actor_id	SERIAL	Number assigned to actor
	First_name	VARCHAR (45)	First name of actor
	Last_Name	VARCHAR (45)	Last name of actor
	Last_updated	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update

Links from:

Tables	Join
Film Actor	Film_actor.actor_id = Actor.actor_id

ii. Address

	Columns	Data Type	Description
	Address_id	SERIAL	Number assigned to address
	Address	VARCHAR (50)	Address first line
	Address_2	VARCHAR (50)	Address second line
	District	VARCHAR (20)	District name
	City_id	SMALLINT	Number assigned to city
	Postal_code	VARCHAR (10)	Postal code of address
	Phone	VARCHAR (20)	Phone number
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update


Links to:

Tables	Join
City	Address.city_id = City.city_id

Links from:

Tables	Join
Customer	Address.address_id = Address.address_id
Staff	Staff.address_id = Address.address_id
Store	Store.address_id = Address.address_id



iii. Category

	Columns	Data Type	Description
	Category_id	SERIAL	Number assigned to category
	Name	VARCHAR (25)	Name of movie
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update

Links to:

Tables	Join
Category_id	Category.category_id = Category_id.category_id

iv. City

	Columns	Data Type	Description
	City_id	SERIAL	Number assigned to city
	City	VARCHAR (50)	Name of city
	Country_id	SMALLINT	Number assigned to country
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update


Links to:

Tables	Join
Country	City.country_id = Country.country_id

Links from:

Tables	Join
Address	Address.city_id = City.city_id




v. Country

	Columns	Data Type	Description
	Country_id	SERIAL	Number assigned to country
	Country	VARCHAR (50)	Name of country
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update

Links from:

Tables	Join
City	City.country_id = Country.country_id

vi. Customer

	Columns	Data Type	Description
	Customer_id	SERIAL	Number assigned to customer
	Store_id	SMALLINT	Number assigned to store
	First_Name	VARCHAR (45)	First name customer
	Last_Name	VARCHAR (45)	Last name customer
	Email	VARCHAR (50)	Email address
	Address_id	SMALLINT	Number assigned to address
	Activebool	Boolean	Confirms accuracy of details
	Create_date	DATE	Creation of membership
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update
	Active	INTEGER	Is account active



Links to:

Tables	Join
Address	Customer.address_id = Address.address_id
Store	Customer.store_id = Store.store_id

Links from:

Tables	Join
Payment	Customer.customer_id = Payment.customer_id
Rental	Customer.customer_id = Rental.customer_id

vii. Film

	Columns	Data Type	Description
	film_id	SERIAL	Number assigned to film
	title	VARCHAR (255)	Title of movie
	description	TEXT	Describes movie
	Release_year	YEAR	Release year movie
	Language_id	SMALLINT	Number assigned to language
	Rental_duration	SMALLINT	Length of rental
	Rental_rate	NUMERIC (5,2)	How often is rented
	Length	SMALLINT	Length of movie
	Replacement_cost	NUMERIC (4,2)	Cost to replace movie
	rating	MPAA_RATING	Age rating of movie
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update
	Special_features	TEXT []	Special attributes
	fulltext	TSVECTOR	



Links to:

Tables	Join
Language	Film.language_id = Language.language_id

Links from:

Tables	Join
Film Actor	Film.film_id = Film_Actor.film_id
Film_Category	Film.film_id = Film_Category.film_id
Inventory	Film-film_id = Inventory.film_id



viii. Film Actor

	Columns	Data Type	Description
	Actor_id	SMALLINT	Number assigned to actor
	film_id	SMALLINT	Number assigned to film
	Last_updated	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update

Links to:

Tables	Join
Actor	Film_Actor.actor_id = Actor.actor_id
Film	Film_Actor.film_id = Film.film_id




ix. Film_category

	Columns	Data Type	Description
	film_id	SMALLINT	Number assigned to film
	Category_id	SMALLINT	Number assigned to category
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update

Links to:

Tables	Join
Film	Film_category.film_id = Film.film_id
Category	Film_category.category_id = Category.category_id

x. Inventory

	Columns	Data Type	Description
	Inventory_id	SERIAL	Sequential number
	film_id	SMALLINT	Number assigned to film
	store_id	SMALLINT	Number assigned to store
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of update


Links to:

Tables	Join
Film	Inventory.film_id = Film.film_id
Store	Inventory.store_id = Store.store_id

Links from:

Tables	Join
Rental	Inventory.inventory_id = Rental.inventory_id




xi. Language

	Columns	Data Type	Description
	language_id	SERIAL	Number assigned to language
	name	CHARACTER (20)	Name of language
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update

Links from:

Tables	Join
Rental	Film.language_id = Language.language_id

xii. Staff

	Columns	Data Type	Description
	staff_id	SERIAL	Number assigned to staff member
	First_name	VARCHAR (45)	First name staff member
	Last_Name	VARCHAR (45)	Last name of staff member
	Address_id	SMALLINT	Number assigned to address
	Email	VARCHAR (50)	Email address
	Store_id	SMALLINT	Number assigned to store
	Active	BOOLEAN	Active (working) or not
	Username	VARCHAR (16)	Staff system username
	Password	VARCHAR (40)	Staff system password
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update
	picture	BYTEA	Picture of staff member




Links to:

Tables	Join
Address	Staff.address_id = Address.address_id

Links from:

Tables	Join
Payment	Payment.staff_id = Staff.staff_id
Rental	Rental.staff_id = Staff.staff_id
Store	Store.staff_id = Staff.staff_id

xiii. Store

	Columns	Data Type	Description
	store_id	SERIAL	Number assigned to store
	manager_staff_id	SMALLINT	Number assigned to store manager
	Address_id	SMALLINT	Number assigned to address
	Last_update	TIME STAMP (6) WITHOUT TIME ZONE	date + time of most recent update

Links to:

Tables	Join
Address	Store.address_id = Address.address_id
Staff	Store.staff_id = Staff.staff_id

Links from:

Tables	Join
Staff	Staff.store_id = Store.store_id
Inventory	Inventory.store_id = Store.store_id
Customer	Customer.store_id = Store.store_id