



Rockbuster Stealth

Data Dictionary



Table of Contents

1 Rockbuster Stealth	2
2 Entity Relationship Dictionary (ERD)	3
3 Tables	4
3.1 Fact tables	4
3.1.1 Table: payment	4
3.1.2 Table: rental	5
3.2 Dimension tables	6
3.2.1 Table: store	6
3.2.2 Table: film_actor	6
3.2.3 Table: inventory	7
3.2.4 Table: film_category	7
3.2.5 Table: customer	8
3.2.6 Table: staff	9
3.2.7 Table: actor	10
3.2.8 Table: film	10
3.2.9 Table: category	11
3.2.10 Table: address	12
3.2.11 Table: language	12
3.2.12 Table: city	13
3.2.13 Table: country	13



1. Rockbuster Stealth

This is a PostgreSQL sample database.

Rockbuster Stealth LLC is a movie rental company that used to have stores around the World and is planning to use its excising movie licenses to launch an online video rental service to stay competitive.

The database contains informant about Rockbuster's film inventory, customers, and payments, among other things.

Download the dataset here: [Rockbuster-Dataset](#)



2.Entity Relationship Dictionary (ERD)

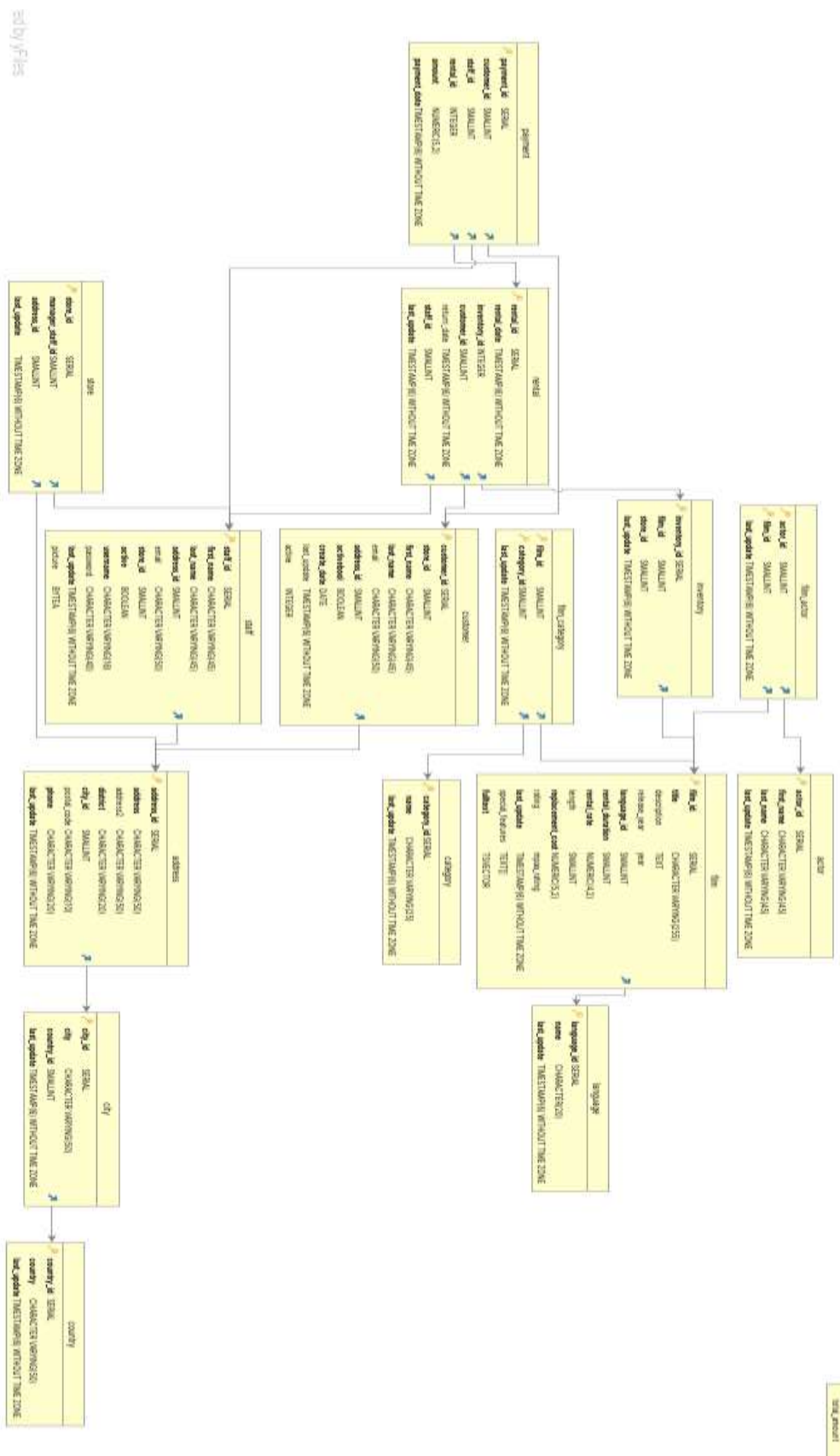


Figure 1: ERD (Snowflake Schema) The fact table is surrounded by many dimension tables.

3. Tables

Legend

 Primary key


 Unique key

 Foreign key relation




3.1 Fact tables

3.1.1 Table: payment





Columns

Name	Data Type	Description/Attributes
 payment_id	SERIAL	Primary key; Unique identification number of the payment
customer_id	SMALLINT	Unique identification number of the customer; Foreign key to customer table
staff_id	SMALLINT	Unique identification number of the staff member; Foreign key to staff table
rental_id	INTEGER	Unique identification number of the rental; Foreign key to rental table
amount	NUMERIC(5,2)	Amount of payment
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of payment

Links to


Table	Join	Title/Name/Description
 customer	payment.payment_id = customer.customer_id	FK_payment_customer_customer_id; Foreign key constraint referencing customer.customer_id
 staff	payment.staff_id = staff.staff_id	FK_payment_staff_staff_id; Foreign key constraint referencing staff.staff_id
 rental	payment.rental_id = rental.rental_id	FK_payment_rental_rental_id; Foreign key constraint referencing rental.rental_id

Unique keys




Columns	Name/Description
 payment_id	PK_payment_payment_id; Primary key (clustered) constraint
 customer_id	FK_payment_customer_id; Unique nonclustered index
 staff_id	FK_payment_staff_id; Unique nonclustered index
 rental_id	FK_payment_rental_id; Unique nonclustered index

3.1.2 Table: rental


Columns

Name	Data Type	Description/Attributes
 rental_id	SERIAL	Primary key; Unique identification number of the rental
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of rental
inventory_id	INTEGER	Unique identification number of the inventory item; Foreign key to inventory table
customer_id	SMALLINT	Unique identification number of the customer; Foreign key to customer table
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of return
staff_id	SMALLINT	Unique identification number of the staff member; Foreign key to staff table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated





Links to

Table	Join	Title/Name/Description
 inventory	rental.inventory_id = inventory.inventory_id	FK_rental_inventory_inventory_id; Foreign key constraint referencing inventory.inventory_id
 customer	rental.customer_id = customer.customer_id	FK_rental_customer_customer_id; Foreign key constraint referencing customer.customer_id
 staff	rental.staff_id = staff.staff_id	FK_rental_staff_staff_id; Foreign key constraint referencing staff.staff_id

Linked from

Table	Join	Title/Name/Description
 payment	rental.rental_id = payment.rental_id	FK_payment_rental_rental_id; Foreign key constraint referencing rental.rental_id


Unique keys

Columns	Name/Description
 rental_id	PK_rental_rental_id; Primary key (clustered) constraint
 inventory_id	FK_rental_inventory_id; Unique nonclustered index
 customer_id	FK_rental_customer_id; Unique nonclustered index
 staff_id	FK_rental_staff_id; Unique nonclustered index

3.2 Dimension tables

3.2.1 Table: store




Columns

Name	Data Type	Description/Attributes
 store_id	SERIAL	Primary key. Unique identification number of the store
manager_staff_id	SMALLINT	Unique identification number of the staff member; Foreign key to staff table
address_id	SMALLINT	Unique identification number of the address; Foreign key to address table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Links to



Table	Join	Title/Name/Description
 staff	store.manager_staff_id = staff.staff_id	FK_store_staff_manager_staff_id; Foreign key constraint referencing staff.staff_id
 address	store.address_id = address.address_id	FK_store_address_address_id; Foreign key constraint referencing address.address_id

Unique keys



Columns	Name/Description
 store_id	PK_store_store_id; Primary key (clustered) constraint
 manager_staff_id	FK_store_manager_staff_id; Unique nonclustered index
 address_id	FK_store_address_id; Unique nonclustered index

3.2.2 Table: film_actor

Columns

Name	Data Type	Description/Attributes
 actor_id	SMALLINT	Primary key. Unique identification number of the actor
 film_id	SMALLINT	Primary key. Unique identification number of the film; Foreign key to film table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Links to


Table	Join	Title/Name/Description
 actor	film_actor.actor_id = actor.actor_id	FK_film_actor_actor_actor_id; Foreign key constraint referencing actor.actor_id
 film	film_actor.film_id = film.film_id	FK_film_actor_film_film_id; Foreign key constraint referencing film.film_id

Unique keys

Columns	Name/Description
 actor_id	PK_film_actor_actor_id; Primary key (clustered) constraint
 film_id	PK_film_actor_film_id; Primary key (clustered) constraint

3.2.3 Table: inventory

Columns

Name	Data Type	Description/Attributes
 inventory_id	SERIAL	Primary key. Unique identification number of the inventory item
film_id	SMALLINT	Unique identification number of the film; Foreign key to film table
store_id	SMALLINT	Unique identification number of the store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated




Links to

Table	Join	Title/Name/Description
 film	inventory.film_id = film.film_id	FK_inventory_film_film_id; Foreign key constraint referencing film.film_id

Linked from



Table	Join	Title/Name/Description
 rental	inventory.rental_id = rental.rental_id	FK_rental_inventory_rental_id; Foreign key constraint referencing rental.rental_id

Unique keys



Columns	Name/Description
 inventory_id	PK_inventory_inventory_id; Primary key (clustered) constraint
 film_id	FK_inventory_film_id; Unique nonclustered index
 store_id	FK_inventory_store_id; Unique nonclustered index

3.2.4 Table: film_category



Columns

Name	Data Type	Description/Attributes
 film_id	SMALLINT	Primary key. Unique identification number of the film; Foreign key to film table
 category_id	SMALLINT	Primary key. Unique identification number of the category; Foreign key to category table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Links to


Table	Join	Title/Name/Description
 film	film_category.film_id = film.film_id	FK_film_category_film_film_id; Foreign key constraint referencing film.film_id
 category	film_category.category_id = category.category_id	FK_film_category_category_category_id; Foreign key constraint referencing category.category_id

Unique keys

Columns	Name/Description
 film_id	PK_film_category_film_id; Primary key (clustered) constraint
 category_id	PK_film_category_category_id; Primary key (clustered) constraint

3.2.5 Table: customer

Columns

Name	Data Type	Description/Attributes
 customer_id	SERIAL	Primary key. Unique identification number of the customer
store_id	SMALLINT	Unique identification number of the store
first_name	CHARACTER VARYING(45)	First name of the customer
last_name	CHARACTER VARYING(45)	Last name of the customer
email	CHARACTER VARYING(50)	Email address of the customer
address_id	SMALLINT	Unique identification number of the address; Foreign key to address table
activebool	BOOLEAN	Boolean value indicating whether customer is active or inactive
create_date	DATE	Date when the customer account was created
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated
active	INTEGER	Binary value indicating whether customer is active or inactive




Links to

Table	Join	Title/Name/Description
 address	customer.address_id = address.address_id	FK_customer_address_address_id; Foreign key constraint referencing address.address_id

Linked from


Table	Join	Title/Name/Description
 payment	customer.payment_id = payment.payment_id	FK_payment_customer_payment_id; Foreign key constraint referencing payment.payment_id
 rental	customer.rental_id = rental.rental_id	FK_rental_customer_rental_id; Foreign key constraint referencing rental.rental_id

Unique keys

Columns	Name/Description
 customer_id	PK_customer_customer_id; Primary key (clustered) constraint
 store_id	FK_customer_store_id; Unique nonclustered index
 address_id	FK_customer_address_id; Unique nonclustered index

3.2.6 Table: staff

Columns

Name	Data Type	Description/Attributes
 staff_id	SERIAL	Primary key. Unique identification number of the staff member
first_name	CHARACTER VARYING(45)	First name of the staff member
last_name	CHARACTER VARYING(45)	Last name of the staff member
address_id	SMALLINT	Unique identification number of the address; Foreign key to address table
email	CHARACTER VARYING(50)	Email address of the staff member
store_id	SMALLINT	Unique identification number of the store
active	BOOLEAN	Boolean value indicating whether staff is active or inactive
username	CHARACTER VARYING(16)	Username of the staff member
password	CHARACTER VARYING(40)	Password of the staff member
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated
picture	BYTEA	Picture of the staff member




Links to

Table	Join	Title/Name/Description
 address	staff.address_id = address.address_id	FK_staff_address_address_id; Foreign key constraint referencing address.address_id

Linked from


Table	Join	Title/Name/Description
 payment	staff.staff_id = payment.staff_id	FK_payment_staff_staff_id; Foreign key constraint referencing staff.staff_id
 rental	staff.rental_id = rental.rental_id	FK_rental_staff_rental_id; Foreign key constraint referencing rental.rental_id
 store	staff.store_id = store.store_id	FK_store_staff_store_id; Foreign key constraint referencing store.store_id

Unique keys

Columns	Name/Description
 staff_id	PK_staff_staff_id; Primary key (clustered) constraint
 address_id	FK_staff_address_id; Unique nonclustered index
 store_id	FK_staff_store_id; Unique nonclustered index

3.2.7 Table: actor

Columns

Name	Data Type	Description/Attributes
 actor_id	SERIAL	Primary key. Unique identification number of the actor
first_name	CHARACTER VARYING(45)	First name of the actor
last_name	CHARACTER VARYING(45)	Last name of the actor
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Linked from


Table	Join	Title/Name/Description
 film_actor	actor.actor_id = film_actor.actor_id	FK_film_actor_actor_actor_id; Foreign key constraint referencing actor.actor_id

Unique keys

Columns	Name/Description
 actor_id	PK_actor_actor_id; Primary key (clustered) constraint

3.2.8 Table: film

Columns




Name	Data Type	Description/Attributes
 film_id	SERIAL	Primary key. Unique identification number of the film
title	CHARACTER VARYING(255)	Title of the film
description	TEXT	Description/Attributes of the film
release_year	year	Year in which the film was released
language_id	SMALLINT	Unique identification number of the language; Foreign key to language table
rental_duration	SMALLINT	Duration of the rental
rental_rate	NUMERIC(4,2)	Price at which the film is rented
length	SMALLINT	Length of the film (in minutes)
replacement_cost	NUMERIC(5,2)	Price at which the film is replaced

rating	mpaa_rating	MPAA rating of the film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated
special_features	TEXT[]	Features of the film
fulltext	TSVECTOR	List of lexemes to support full text search

Links to

Table	Join	Title/Name/Description
 language	film.language_id = language.language_id	FK_film_language_language_id; Foreign key constraint referencing language.language_id

Linked from


Table	Join	Title/Name/Description
 film_actor	film.film_id = film_actor.film_id	FK_film_actor_film_film_id; Foreign key constraint referencing film.film_id
 inventory	film.film_id = inventory.film_id	FK_inventory_film_film_id; Foreign key constraint referencing film.film_id
 film_category	film.film_id = film_category.film_id	FK_film_category_film_film_id; Foreign key constraint referencing film.film_id

Unique keys


Columns	Name/Description
 film_id	PK_film_film_id; Primary key (clustered) constraint
 language_id	FK_film_language_id; Unique nonclustered index

3.2.9 Table: category


Columns

Name	Data Type	Description/Attributes
 category_id	SERIAL	Primary key. Unique identification number of the film category
name	CHARACTER VARYING(25)	Name of the film category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Linked from


Table	Join	Title/Name/Description
 film_category	category.category_id = film_category.category_id	FK_film_category_category_category_id; Foreign key constraint referencing category.category_id

Unique keys


Columns	Name/Description
 category_id	PK_category_category_id; Primary key (clustered) constraint

3.2.10 Table: address

Columns

Name	Data Type	Description/Attributes
 address_id	SERIAL	Primary key. Unique identification number of the address
address	CHARACTER VARYING(50)	First street address line
address 2	CHARACTER VARYING(50)	Second street address line
district	CHARACTER VARYING(50)	Name of the district
city_id	SMALLINT	Unique identification number of the city; Foreign key to city table
postal_code	CHARACTER VARYING(10)	Postal code for the street address
phone	CHARACTER VARYING(20)	Telephone identification number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Links to

Table	Join	Title/Name/Description
 city	address.city_id = city.city_id	FK_address_city_city_id; Foreign key constraint referencing city.city_id

Linked from


Table	Join	Title/Name/Description
 customer	address.address_id = customer.address_id	FK_customer_address_address_id; Foreign key constraint referencing address.address_id
 staff	address.address_id = staff.address_id	FK_staff_address_address_id; Foreign key constraint referencing address.address_id
 store	address.address_id = store.address_id	FK_store_address_address_id; Foreign key constraint referencing address.address_id

Unique keys


Columns	Name/Description
 address_id	PK_address_address_id; Primary key (clustered) constraint
 city_id	FK_address_city_id; Unique nonclustered index

3.2.11 Table: language

Columns

Name	Data Type	Description/Attributes
 language_id	SERIAL	Primary key. Unique identification number of the language
name	CHARACTER(20)	Name of the language
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Linked from


Table	Join	Title/Name/Description
 film	language.language_id = film.language_id	FK_film_language_language_id; Foreign key constraint referencing language.language_id

Unique keys

Columns	Name/Description
 language_id	PK_address_address_id; Primary key (clustered) constraint

3.2.12 Table: city

Columns

Name	Data Type	Description/Attributes
 city_id	SERIAL	Primary key. Unique identification number of the language
city	CHARACTER VARYING(50)	Name of the city
country_id	SMALLINT	Unique identification number of the country; Foreign key to country table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Links to

Table	Join	Title/Name/Description
 country	city.country_id = country.country_id	FK_city_country_country_id; Foreign key constraint referencing country.country_id

Linked from


Table	Join	Title/Name/Description
 address	city.city_id = address.city_id	FK_address.city_id; Foreign key constraint referencing city.city_id

Unique keys

Columns	Name/Description
 city_id	PK_city_city_id; Primary key (clustered) constraint
 country_id	FK_city_country_id; Unique nonclustered index

3.2.13 Table: country

Columns

Name	Data Type	Description/Attributes
 country_id	SERIAL	Primary key. Unique identification number of the country
country	CHARACTER VARYING(50)	Name of the country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp when the record was last updated

Linked from

Table	Join	Title/Name/Description
 city	country.country_id = city.country_id	FK_city_country_country_id; Foreign key constraint referencing country.country_id

Unique keys

Columns	Name/Description
 country_id	PK_country_country_id; Primary key (clustered) constraint