

Data Dictionary

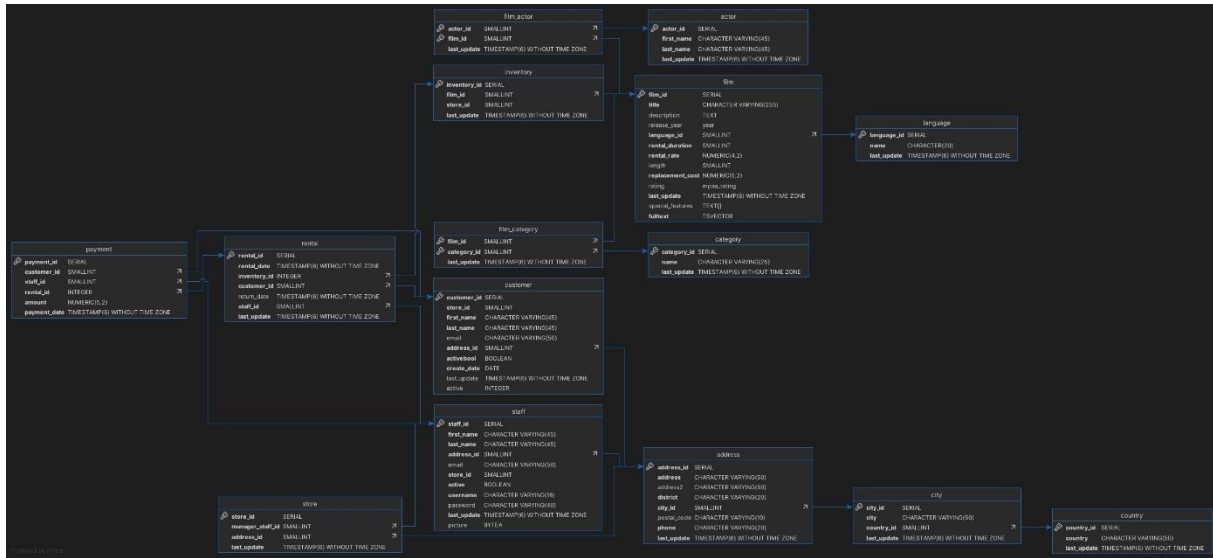
ROCKBUSTER BUSINESS ANALYSIS

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1. ERD



2. Fact Tables

2.1 Payment

	payment		
	Columns	Data Type	Description
	payment_id	SERIAL	Identificator of transaction
	customer	SMALL INTEGRER	Identificator of customer
	staff_id	SMALL INTEGRER	Identificator of staff member completing transaction
	rental_id	INTEGRER	Identificator of rental transaction
	amount	NUMERIC (5,2)	Amount paid
	payment_date	TIMESTAMP (6) WITHOUT ZONE	Date of payment


Links to

	Table	Join	Title/Name/Description
→	Customer	payment.customer_id = customer.customer_id	payment_customer_id_fkey Foreign key constraint referencing customer.customer_id
→	Staff	payment.staff_id = staff.staff_id	rental_staff_id_fkey Foreign key referencing staff.staff_id
→	Rental	payment.rental_id = rental.rental_id	payment_rental_id_fkey Foreign key referencing rental.rental_id

Links from

	Table	Join	Title/Name/Description
	None		

Unique keys

	Columns	Title/Name/Description
	payment_id	payment_pkey

2.2 Rental

rental		
Columns	Data Type	Description
rental_id	SERIAL	Identificator of rental transcation
rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of rental
inventory_id	INTEGRER	Identificator of rental item in the inventory
customer_id	SMALL INTEGRER	Identificator of customer
return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of rental return
staff_id	SMALL INTEGRER	Identificator of staff completing transaction
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update


Links to

	Table	Join	Title/Name/Description
→	inventory	rental.inventory_id = inventory.inventory_id	rental_inventory_id_fkey Foreign key constraint referencing inventory.inventory_id
→	customer	rental.customer_id = customer.customer_id	rental_customer_id_fkey Foreign key constraint referencing customer.customer_id
→	staff	rental.staff_id = staff.staff_id	rental_staff_id_fkey Foreign key constraint referencing staff.staff_id

Links from

	Table	Join	Title/Name/Description
←	payment	rental.payment_id = payment.payment_id	payment_rental_id_fkey Foreign key referencing rental.rental_id

Unique keys

	Columns	Title/Name/Description
	rental_id	rental_pkey

3. Dimension Tables

3.1 Store

store		
Columns	Data Type	Description
store_id	SERIAL	Identificator of store
manager_staff_id	SMALL INTEGRER	Identificator of staff manager
address_id	SMALL INTEGRER	Identificator of store address
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update


Links to

	Table	Join	Title/Name/Description
→	staff	store.manager_staff_id = staff.staff_id	store_manager_staff_id_fkey Foreign key constraint referencing staff.staff_id
→	address	store.address_id = address.address_id	store_address_id_fkey Foreign key constraint referencing address.address_id

Links from

	Table	Join	Title/Name/Description
←	none		

Unique keys

	Columns	Title/Name/Description
	store_id	store_pkey

3.2 Customer

customer		
Columns	Data Type	Description
customer_id	SERIAL	Identificator of customer
store_id	SMALL INTEGRER	Identificator 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 of customer
address_id	SMALL INTEGRER	Identificator of customer address
activebool	BOOLEAN	Boolean value
create_date	DATE	Date of customer profile creation
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update
active	INTEGRER	Binary value (YES=1, NO=0)


Links to

	Table	Join	Title/Name/Description
→	address	customer.address_id = address.address_id	customer_address_id_fkey Foreign key constraint referencing address.address_id

Links from

	Table	Join	Title/Name/Description
←	payment	customer.customer_id = payment.customer_id	payment_customer_id_fkey Foreign key constraint referencing customer.customer_id
←	rental	customer.rental_id = rental.customer_id	rental_customer_id_fkey Foreign key constraint referencing customer.customer_id

Unique keys

	Columns	Title/Name/Description
	customer_id	customer_pkey

3.3 Staff

staff		
Columns	Data Type	Description
staff_id	SERIAL	Identificator of staff member
first_name	CHARACTER VARYING (45)	First name of staff member
last_name	CHARACTER VARYING (45)	Last name of staff member
address_id	SMALL INTEGRER	Identificator of staff member address
email	CHARACTER VARYING (50)	Staff member email
store_id	SMALL INTEGRER	Identificator of staff member's store location
active	BOOLEAN	
username	CHARACTER VARYING (16)	Staff member's system username
password	CHARACTER VARYING (40)	Staff member's system password
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update
picture	BYTEA	Staff member picture


Links to

	Table	Join	Title/Name/Description
→	address	staff.address_id = address.address_id	staff_address_id_fkey Foreign key constraint referencing address.address_id

Links from

	Table	Join	Title/Name/Description
←	store	staff.staff_id = store.manager_staff_id	store_manager_staff_id_fkey Foreign key constraint referencing store.manager_staff_id

Unique keys

	Columns	Title/Name/Description
	staff_id	staff_pkey

3.4 Address

address		
Columns	Data Type	Description
address_id	SERIAL	Identificator of address record
address	CHARACTER VARYING (50)	Address
address2	CHARACTER VARYING (50)	Secondary address
district	CHARACTER VARYING (20)	District of address
city_id	SMALL INTEGRER	Identificator of address's city
postal_code	CHARACTER VARYING (10)	Postal code of address
phone	CHARACTER VARYING (20)	Phone linked to address
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update


Links to

	Table	Join	Title/Name/Description
→	city	address.city_id = city.city_id	fk_address_city Foreign key constraint referencing city.city_id

Links from

	Table	Join	Title/Name/Description
←	store	address.address_id = store.address_id	store_address_id_fkey Foreign key constraint referencing store.address_id
←	customer	address.address_id = customer.customer_id	customer_address_id_fkey Foreign key constraint referencing customer.customer_id
←	staff	address.address_id = staff.address_id	staff_address_id_fkey Foreign key constraint referencing staff.address_id

Unique keys

	Columns	Title/Name/Description
	address_id	address_pkey

3.5 City

city		
Columns	Data Type	Description
city_id	SERIAL	Identificator of city
city	CHARACTER VARYING (50)	City name
country_id	SMALL INTEGRER	Identificator of country
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update


Links to

	Table	Join	Title/Name/Description
→	country	city.country_id = country.country_id	fk_city Foreign key constraint referencing country.country_id

Links from

	Table	Join	Title/Name/Description
←	address	city.address_id = address.address_id	fk_address_city Foreign key constraint referencing address.address_id

Unique keys

	Columns	Title/Name/Description
	city_id	city_pkey

3.6 Country

country		
Columns	Data Type	Description
country_id	SERIAL	Identificator of country
country	CHARACTER VARYING (50)	Country name
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update


Links to

	Table	Join	Title/Name/Description
→	none		

Links from

	Table	Join	Title/Name/Description
←	city	country.country_id = city.country_id	fk _city Foreign key constraint referencing city.country_id

Unique keys

	Columns	Title/Name/Description
	city_id	city_pkey

3.7 Inventory

inventory		
Columns	Data Type	Description
inventory_id	SERIAL	Identificator of inventory record
film_id	SMALL INTEGRER	Identificator of film item
store_id	SMALL INTEGRER	Identificator of store where inventory record is located
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update


Links to

	Table	Join	Title/Name/Description
→	film	inventory.film_id = film.film_id	inventory_film_id_fk Foreign key constraint referencing film.film_id

Links from

	Table	Join	Title/Name/Description
←	rental	inventory.rental_id = rental.rental_id	rental_invetory_id_fkey Foreign key constraint referencing rental.rental_id

Unique keys

	Columns	Title/Name/Description
	inventory_id	inventory_pkey

3.8 Film

film		
Columns	Data Type	Description
film_id	SERIAL	Identificator of film item
title	CHARACTER VARYING (255)	Title of film item
description	TEXT	Description of film
release_year	year	Year of film's release
language_id	SMALL INTEGRER	Film's original language
rental_duration	SMALL INTEGRER	Rental duration in days
rental_rate	NUMERIC (4,2)	Rental rate per day
length	SMALL INTEGRER	Length of film in minutes
replacement_cost	NUMERIC (5,2)	Cost of replacing unit
rating	mpaa_rating	Rating according to MPAA
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last date of record update
special_features	TEXT []	Additional playable content in unit
fulltext	TSVECTOR	Word count


Links to

	Table	Join	Title/Name/Description
→	language	film.language_id = language.language_id	film_language_id_fkey Foreign key constraint referencing language.language_id

Links from

	Table	Join	Title/Name/Description
←	film_actor	film.film_id = film_actor.film_id	film_actor_film_id_fkey Foreign key constraint referencing film_actor.film_id
←	inventory	film.film_id = inventory.film_id	inventory_film_id_fkey Foreign key constraint referencing inventory.film_id
←	film_category	film.film_id = film_category.film_id	film_category_film_id_fkey Foreign key constraint referencing film_category.film_id

Unique keys

	Columns	Title/Name/Description
	film_id	film_pkey

3.9 Language

language		
Columns	Data Type	Description
language_id	SERIAL	Identificator of language
name	CHARACTER (20)	Name of language
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update of record


Links to

	Table	Join	Title/Name/Description
→	none		

Links from

	Table	Join	Title/Name/Description
←	film	language.film_id = film.film_id	film_language_id_fkey Foreign key constraint referencing film.film_id

Unique keys

	Columns	Title/Name/Description
	language_id	language_pkey

3.10 Film Category

film_category		
Columns	Data Type	Description
film_id	SMALL INTEGRER	Identificator of film
category_id	SMALL INTEGRER	Identificator of film's category
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update of record


Links to

	Table	Join	Title/Name/Description
→	film	film_category.film_id = film.film_id	film_category_film_id_fkey Foreign key constraint referencing film.film_id
→	category	film_category.category_id = category.category_id	film_category_category_id_fkey Foreign key constraint referencing category.category_id

Links from

	Table	Join	Title/Name/Description
←	none		

Unique keys

	Columns	Title/Name/Description
	film_category_id	film_category_pkey

3.11 Category

category		
Columns	Data Type	Description
category_id	SERIAL	Identificator of category
name	CHARACTER VARYING (25)	Name of category
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update of record


Links to

	Table	Join	Title/Name/Description
→	none		

Links from

	Table	Join	Title/Name/Description
←	film_category	category.category_id = film_category.category_id	film_category_category_id_fkey Foreign key constraint referencing film_category.category_id

Unique keys

	Columns	Title/Name/Description
	category_id	category_pkey

3.12 Film Actor

film_actor		
Columns	Data Type	Description
actor_id	SMALL INTEGRER	Identificator of actor
film_id	SMALL INTEGRER	Identificator of film
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update of record


Links to

	Table	Join	Title/Name/Description
→	actor	film_actor.actor_id = actor.actor_id	film_actor_actor_id_fkey Foreign key constraint referencing actor.actor_id
→	film	film_actor.film_id = film.film_id	film_actor_film_id_fkey Foreign key constraint referencing film.film_id

Links from

	Table	Join	Title/Name/Description
←	none		

Unique keys

	Columns	Title/Name/Description
	film_actor_id	film_actor_pkey

3.13 Actor

actor		
Columns	Data Type	Description
actor_id	SERIAL	Identificator of actor
first_name	CHARACTER VARYING (45)	Actor's first name
last_name	CHARACTER VARYING (45)	Actor's last name
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last update of record


Links to

	Table	Join	Title/Name/Description
→	none		

Links from

	Table	Join	Title/Name/Description
←	film_actor	actor.actor_id = film_actor.actor_id	film_actor_actor_id_fkey Foreign key constraint referencing film_actor.actor_id

Unique keys

	Columns	Title/Name/Description
	actor_id	actor_pkey