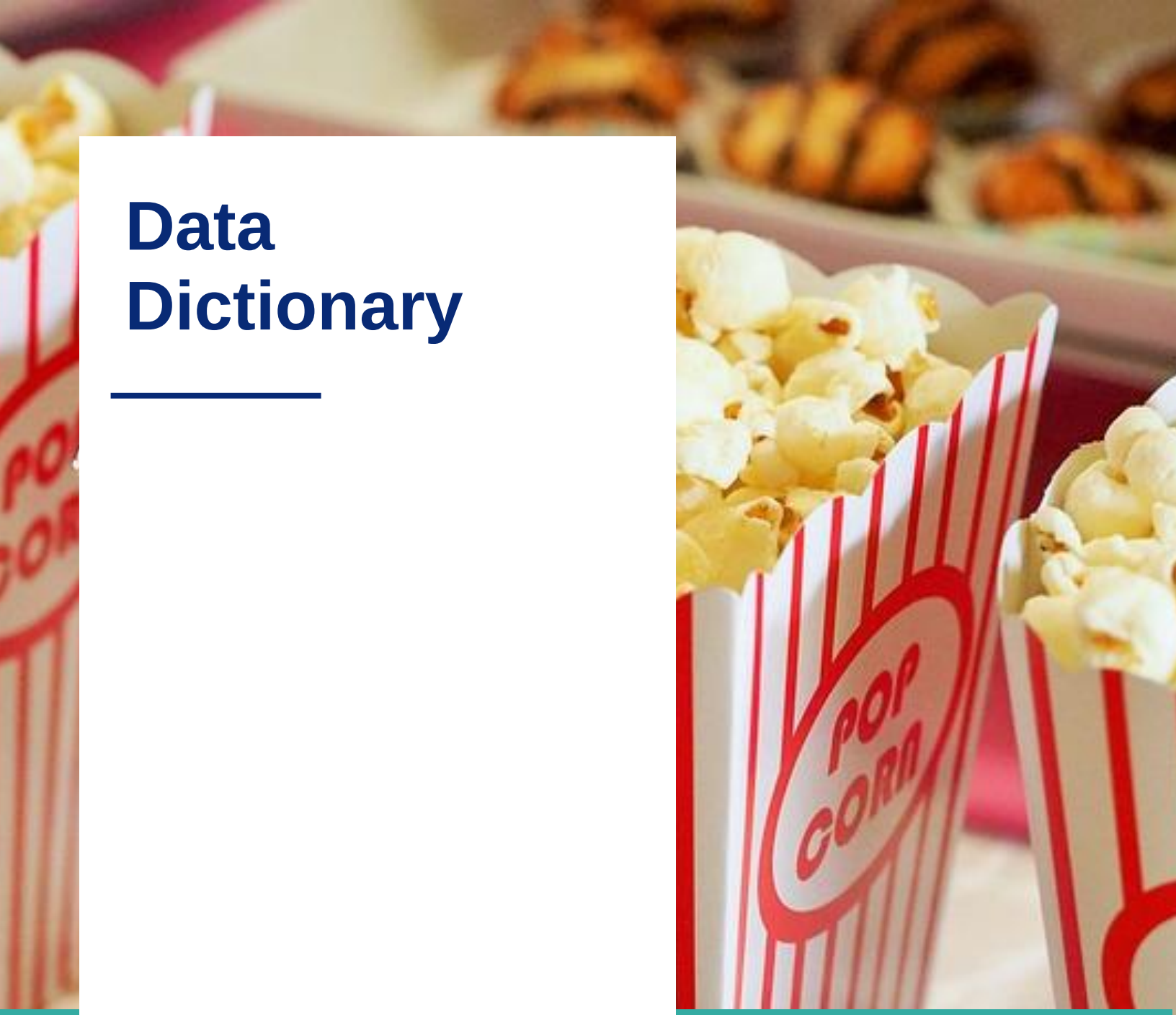

Data Dictionary

APRIL 2023

Rockbuster Stealth
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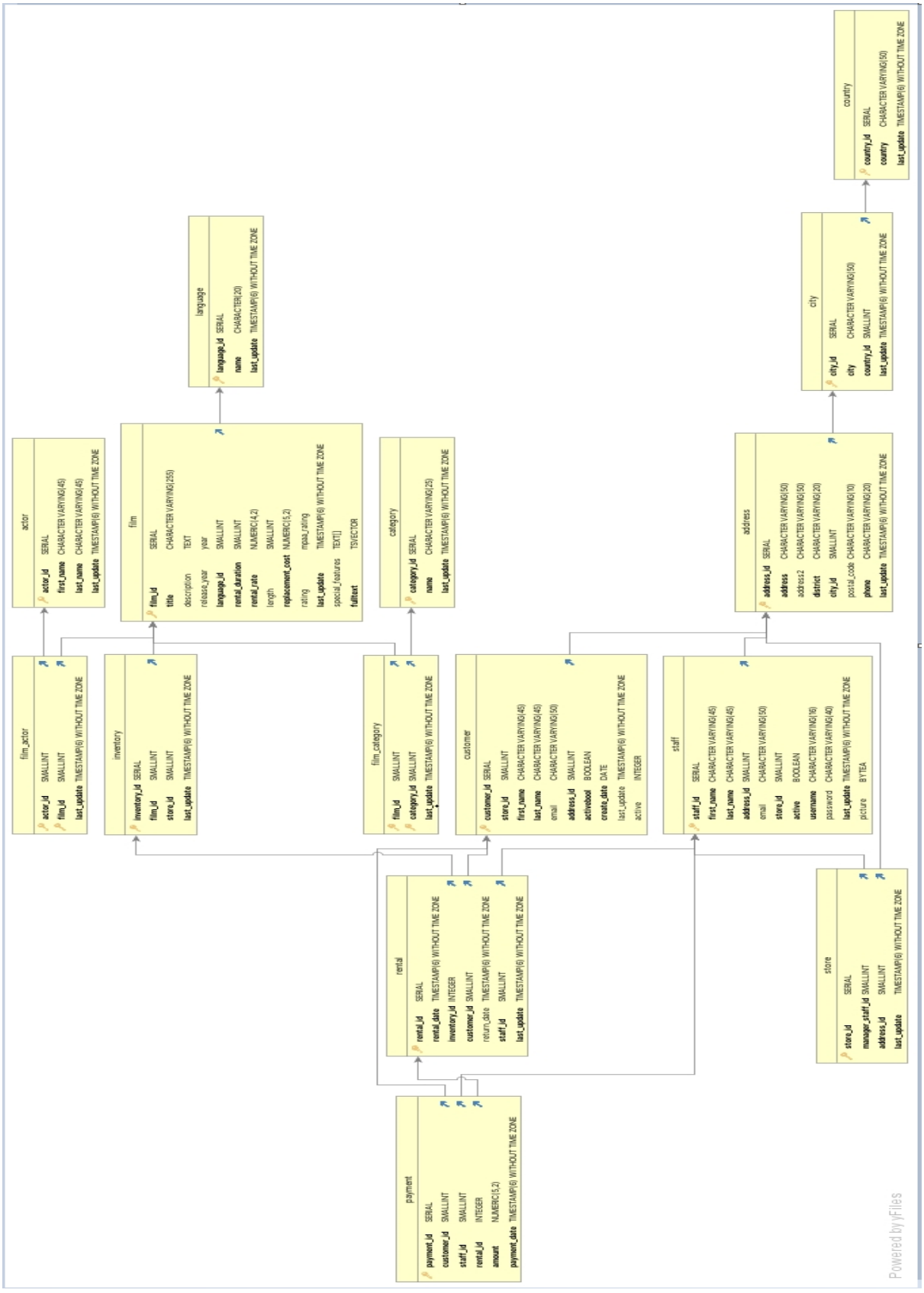
1: Relationship Diagram



(PK = Primary Key, FK= Foreign Key)

2: Fact Table

2.1 Payment Table

Key	Column	Data Type	Description
PK	payment_id	SERIAL	Unique payment ID
FK	customer_id	SMALLINT	Unique customer ID
FK	staff_id	SMALLINT	Unique staff ID
FK	rental_id	INTEGER	Unique rental ID
	amount	NUMERIC (5,2)	Price value
	payment_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date of Payment

Links to

Table	Join
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id
Rental	payment.rental_id = rental.rental_id

Link from

N/A

2.2 Rental Table

Key	Column	Data Type	Description
PK	rental_id	SERIAL	Unique rental ID
	rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date of rental
FK	inventory_id	INTEGER	Unique inventory ID
FK	customer_id	SMALLINT	Unique customer ID
	return_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date of rental return
FK	staff_id	SMALLINT	Unique staff ID

	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

Table	Join
Inventory	rental.inventory_id = inventory.inventory_id
Customer	rental.customer_id = customer.customer_id
Staff	rental.staff_id = staff.staff_id

Links from

Table	Join
Payment	payment.rental_id = rental.rental_id

3. Dimensions

3.1 Store Table

Key	Column	Data Type	Description
PK	store_id	SERIAL	Unique store ID
FK	manager_staff_id	SMALLINT	Unique manager ID
FK	address_id	SMALLINT	Unique address ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

Table	Join
Staff	store.manager_staff_id = staff.staff_id
Address	store.address_id = address.address_id

Link from

N/A

3.2 Film Actor Table

Table	Column	Data Type	Description
PK	actor_id	SMALLINT	Unique actor ID
PK	film_id	SMALLINT	Unique film ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

Table	Join
Actor	film_actor.actor_id = actor.actor_id
Film	film_actor.film_id = film.film_id

Links from

N/A

3.3 Inventory

Key	Column	Data Type	Description
PK	inventory_id	SERIAL	Unique inventory ID
FK	film_id	SMALLINT	Unique film ID
	store_id	SMALLINT	Unique store ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

Table	Join
Film	inventory.film_id = film.film_id

Links to

Table	Join
Rental	rental.inventory_id = inventory.inventory_id

3.4 Film Category Table

Key	Column	Data Type	Description
PK	film_id	SMALLINT	Unique film ID
PK	category_id	SMALLINT	Unique store ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

Table	Join
Film	film_category.film_id = film.film_id
Category	film_category.category_id = category.category_id

Links from

N/A

3.5 Customer Table

Key	Column	Data Type	Description
PK	customer_id	SERIAL	Unique customer ID
FK	store_id	SMALLINT	Unique store ID
	first_name	CHARACTER VARRYING (45)	Customer First Name
	last_name	CHARACTER VARRYING (45)	Customer Last Name
	Email	CHARACTER VARRYING (50)	Customer email address
FK	address_id	SMALLINT	Unique address ID
	activebool	BOOLEAN	Customer activity Status
	create_date	DATE	Date customer account created
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update
	active	INTEGER	Active integer

Links to

Table	Join
Address	customer.address_id = address.address_id

Links from

Table	Join
Rental	rental.customer_id = customer.customer_id
Payment	payment.customer_id = customer.customer_id

3.6 Staff Table

Key	Column	Data Type	Description
PK	staff_id	SERIAL	Unique staff ID
	first_name	CHARACTER VARRYING (45)	Staff First Name
	last_name	CHARACTER VARRYING (45)	Staff Last Name
FK	address_id	SMALLINT	Unique address ID
	Email	CHARACTER VARRYING (50)	Staff email address
FK	store_id	SMALLINT	Unique store ID
	active	BOOLEAN	Staff activity Status
	username	CHARACTER VARRYING (16)	Staff username
	password	CHARACTER VARRYING (40)	Staff password
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update
	picture	BYTEA	Staff photo

Links to

Table	Join
Address	staff.address_id = address.address_id

Links from

Table	Join
Payment	payment.staff_id = staff.staff_id

Rental	**rental.staff_id = staff.staff_id**
Store	**store.manager_staff_id = staff.staff_id**

3.7 Actor Table

Key	Column	Data Type	Description
PK	**actor_id**	**SERIAL**	**Unique actor ID**
	first_name	**CHARACTER VARRYING (45)**	**Actor First Name**
	last_name	**CHARACTER VARRYING (45)**	**Actor Last Name**
	last_update	**TIMESTAMP (6) WITHOUT TIMEZONE**	**Date of last table update**

Links to

N/A

Links from

Table	Join
Film Actor	**film_actor.actor_id = actor.actor_id**

3.8 Film Table

Column	Data Type	Description
film_id	**SERIAL**	**Unique film ID**
title	**CHARACTER VARRYING (255)**	**Film Title**
description	**Text**	**Film description**
release_year	**year**	**Film release year**
language_id	**Smallint**	**Unique language ID**
rental_duration	**Smallint**	**Length of rental**
rental_rate	**Numeric (4,2)**	**Rental Price**
length	**Smallint**	**Film Length**
replacement_cost	**Numeric (5,2)**	**Replacement cost price**
rating	**mpaa_rating**	**Film Rating**

last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update
special_features	Text ()	Film Special Features
fulltext	TSVECTOR	Film index

Links to

Table	Join
Language	film.language_id = language.language_id

Links from

Table	Join
Film Actor	film_actor.film_id = film.film_id
Inventory	inventory.film_id = film.film_id
Film Category	film_category.film_id = = film.film_id

3.9 Category Table

Key	Column	Data Type	Description
PK	category_id	SERIAL	Unique actor ID
	name	CHARACTER VARRYING (25)	Category name
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

N/A

Linked from

Table	Join
Film Category	film_category.category_id = category.category_id

3.10 Address Table

Key	Column	Data Type	Description
PK	address_id	SERIAL	Unique address ID
	address	CHARACTER VARRYING (50)	Address

	Address2	CHARACTER VARRYING (50)	Address
	district	CHARACTER VARRYING (20)	District name
FK	city_id	SMALLINT	Unique city ID
	postal_code	CHARACTER VARRYING (10)	Postal Code
	phone	CHARACTER VARRYING (20)	Phone Number
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

Table	Join
City	address.city_id = city.city_id

Links from

Table	Join
Customer	customer.address_id = address.address_id
Staff	staff.address_id = address.address_id
Store	store.address_id = address.address_id

3.11 Language Table

Key	Column	Data Type	Description
PK	language_id	SERIAL	Unique language ID
	name	CHARACTER VARRYING (20)	Language name
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

N/A

Links from

Table	Join
Film	film.language _id = language.language_id

3.12 City Table

Key	Column	Data Type	Description
PK	city_id	SERIAL	Unique city ID
	city	CHARACTER VARRYING (20)	City name
FK	country_id	SMALLINT	Unique country ID
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

Table	Join
Country	city.country_id = country.country_id

Links from

Table	Join
Address	address.city_id = city.city_id

3.13 Country Table

Key	Column	Data Type	Description
PK	country_id	SERIAL	Unique country ID
	country	CHARACTER VARRYING (50)	Country name
	last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date of last table update

Links to

N/A

Links from

Table	Join
City	city.country_id = country.country_id