Rockbuster Stealth
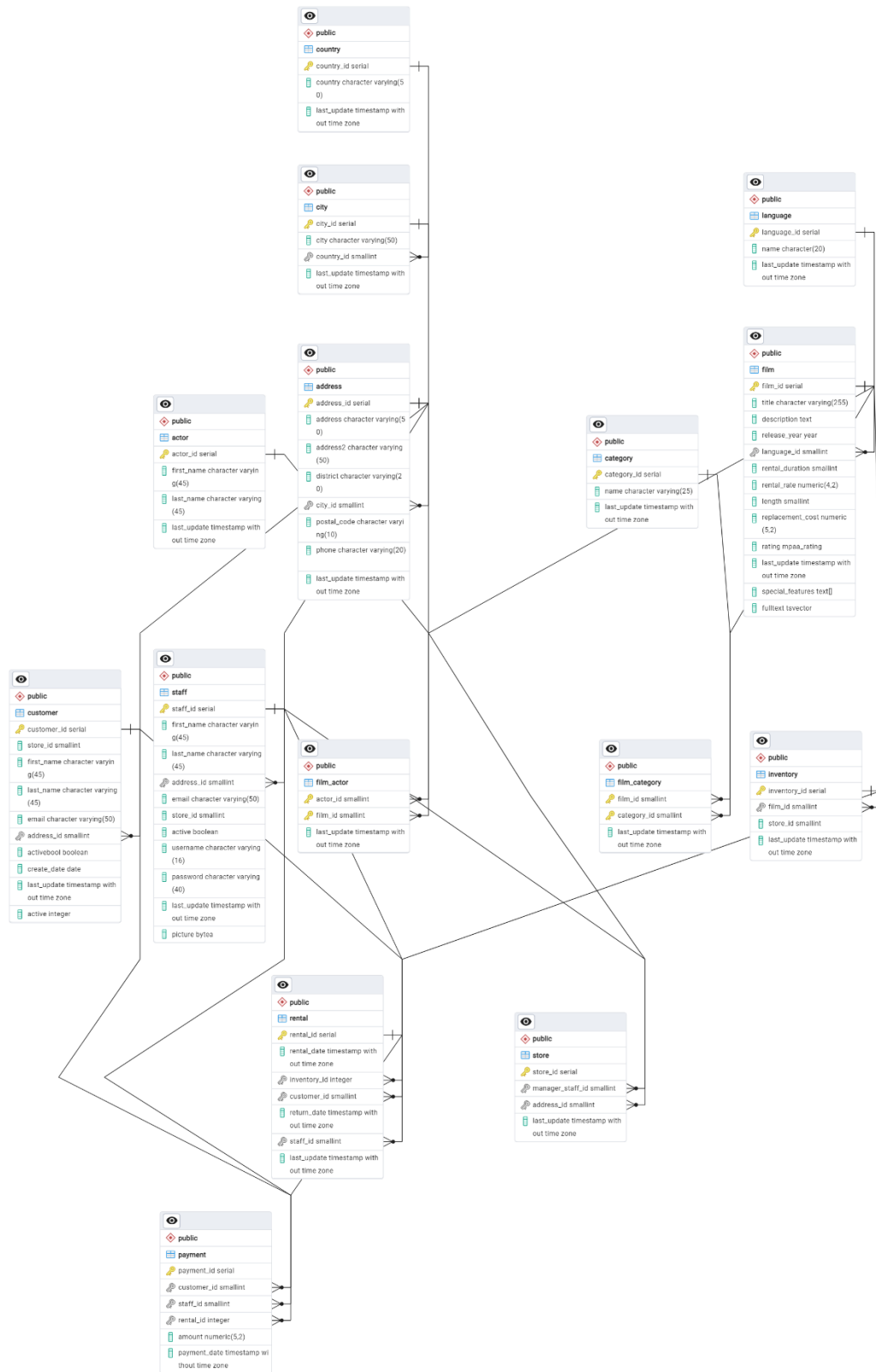
Data Dictionary

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1. Entity Relationship Diagram (ERD)

2. Fact Tables

2.1 Payment

Key	Column	Link	Data Type	Description
Primary Key	Payment_id		SERIAL	Unique id for each payment
Foreign Key	Customer_id	To Customer	SMALLINT	Unique id for each customer
Foreign Key	Staff_id	To Staff	SMALLINT	Unique id for each staff member
Foreign Key	Rental_id	To Rental	INTEGER	Unique id for each rental
	Amount		NUMERIC(5,2)	Payment amount, cannot exceed 5 digits, 2 decimals
	Payment_date		TIMESTAMP(6) WITHOUT TIME ZONE	Date the payment was made

2.2 Rental

Key	Column	Link	Data Type	Description
Primary Key	Rental_id	From Payment	SERIAL	Unique id for each rental
	Rental_date		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the video was rented
Foreign Key	Inventory_id	To Inventory	INTEGER	Unique id for the video in the inventory
Foreign Key	Customer_id	To Customer	INTEGER	Unique id for the customer
	Return_date		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the video was returned
Foreign Key	Staff_id	To Staff	SMALLINT	Unique id for the staff
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3. Dimension Tables

3.1 Actor

Key	Column	Link	Data Type	Description
Primary Key	Actor_id	From Film Actor	SERIAL	Unique id for actor
	First_name		CHARACTER VARYING(45)	Actor first name
	Last_name		CHARACTER VARYING(45)	Actor last name
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.2 Address

Key	Column	Link	Data Type	Description
Primary Key	Address_id	From Customer From Staff From Store	SERIAL	Unique id for address
	Address		CHARACTER VARYING(50)	First street address line
	Address2		CHARACTER VARYING(50)	Second street address line
	District		CHARACTER VARYING(20)	District name
Foreign Key	City_id	To City	SMALLINT	Unique id for each city
	Postal_Code		CHARACTER VARYING(10)	Postal code for the street address
	Phone		CHARACTER VARYING(20)	Phone number
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.3 Category

Key	Column	Link	Data Type	Description
Primary Key	Category_id	From Film Category	SERIAL	Unique id for each film category
	Name		CHARACTER VARYING(25)	Name of category
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.4 City

Key	Column	Link	Data Type	Description
Primary Key	City_id	From Address	SERIAL	Unique id for each city
	City		CHARACTER VARYING(50)	Name of the city
Foreign Key	Country_id	To Country	SMALLINT	Unique id for each country
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.5 Country

Key	Column	Link	Data Type	Description
Primary Key	Country_id	From City	SERIAL	Unique id for each country
	Country		CHARACTER VARYING(50)	Name of the country
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.6 Customer

Key	Column	Link	Data Type	Description
Primary Key	Customer_id	From Payment From Rental	SERIAL	Unique id for each customer
	Store_id		SMALLINT	Unique id for each store
	First_name		CHARACTER VARYING(45)	Customer first name
	Last_name		CHARACTER VARYING(45)	Customer last name
	Email		CHARACTER VARYING(50)	Customer email address
Foreign Key	Address_id	To Address	SMALLINT	Unique id for each address
	Activebool		BOOLEAN	True or false if customer is active or not
	Create_date		DATE	Date customer added into database
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated
	Active		INTEGER	Active or not

3.7 Film

Key	Column	Link	Data Type	Description
Primary Key	Film_id	From Film Actor From Film Category From Inventory	SERIAL	Unique id for each film
	Title		CHARACTER VARYING(255)	Title of film
	Description		TEXT	One sentence synopsis of film
	Release_year		year	Film release year
Foreign Key	Language_id	To Language	SMALLINT	Unique id for language of film
	Rental_duration		SMALLINT	Days rented
	Rental_rate		NUMERIC(4,2)	Cost of rental, 4 digits max, 2 decimals
	Length		SMALLINT	Film runtime in minutes
	Replacement_cost		NUMERIC(5,2)	Cost of rental replacement, 5 digits, 2 decimals
	Rating		Mpaa_rating	Rating given by Motion Picture Association (i.e. PG, PG-13, R)
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated
	Special_features		TEXT[]	Lists if the film has any special features (i.e. trailers, deleted scenes, commentaries)
	Fulltext		TSVECTOR	Keyword descriptors of the film

3.8 Film Actor

Key	Column	Link	Data Type	Description
Primary Key, Foreign Key	Actor_id	To Actor	SMALLINT	Unique id for each actor
Primary Key, Foreign Key	Film_id	From Film	SMALLINT	Unique id for film
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.9 Film Category

Key	Column	Link	Data Type	Description
Primary Key, Foreign Key	Film_id	To Film	SMALLINT	Unique id for each film
Primary Key, Foreign Key	Category_id	From Category	SMALLINT	Unique id for each film category
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.10 Inventory

Key	Column	Link	Data Type	Description
Primary Key	Inventory_id	From Rental	SERIAL	Unique id for inventory
Foreign Key	Film_id	To Film	SMALLINT	Unique id for each film
Foreign Key	Store_id	To Store	SMALLINT	Unique id for each store
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.11 Language

Key	Column	Link	Data Type	Description
Primary Key	Language_id	From Film	SERIAL	Unique id for language of film
	Name		CHARACTER(20)	Name of language
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated

3.12 Staff

Key	Column	Link	Data Type	Description
Primary Key	Staff_id	From Payment From Rental From Store	SERIAL	Unique id for each staff member
	First_name		CHARACTER VARYING(45)	Staff's first name
	Last_name		CHARACTER VARYING(45)	Staff's last name
Foreign Key	Address_id	To Address	SMALLINT	Unique id for each staff's address
	Email		CHARACTER VARYING(50)	Staff's email address
Foreign Key	Store_id	From Store	SMALLINT	Unique id for each store
	Active		BOOLEAN	True or false if staff is active or not
	Username		CHARACTER VARYING(16)	Staff's username
	Password		CHARACTER VARYING(40)	Staff's password
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated
	Picture		BYTEA	Picture of staff

3.13 Store

Key	Column	Link	Data Type		Description
Primary Key	Store_id		SERIAL		Unique id for each store
Foreign Key	Manager_staff_id	To Staff	SMALLINT		Unique id for each manager
Foreign Key	Address_id	To Address	SMALLINT		Unique id for store address
	Last_update		TIMESTAMP(6) WITHOUT TIME ZONE		Date and time of record last updated