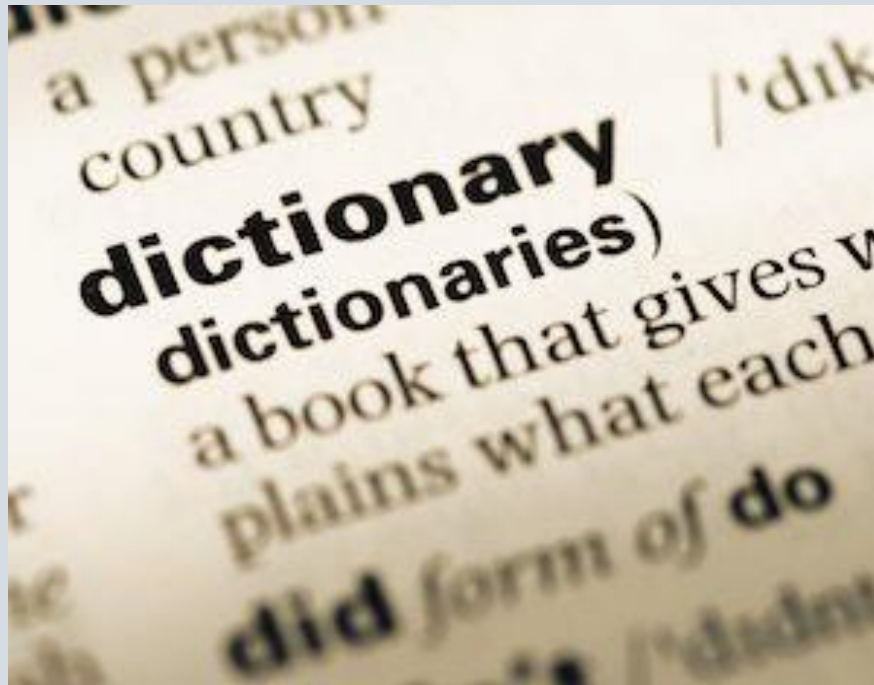


Rockbuster Stealth Data Dictionary



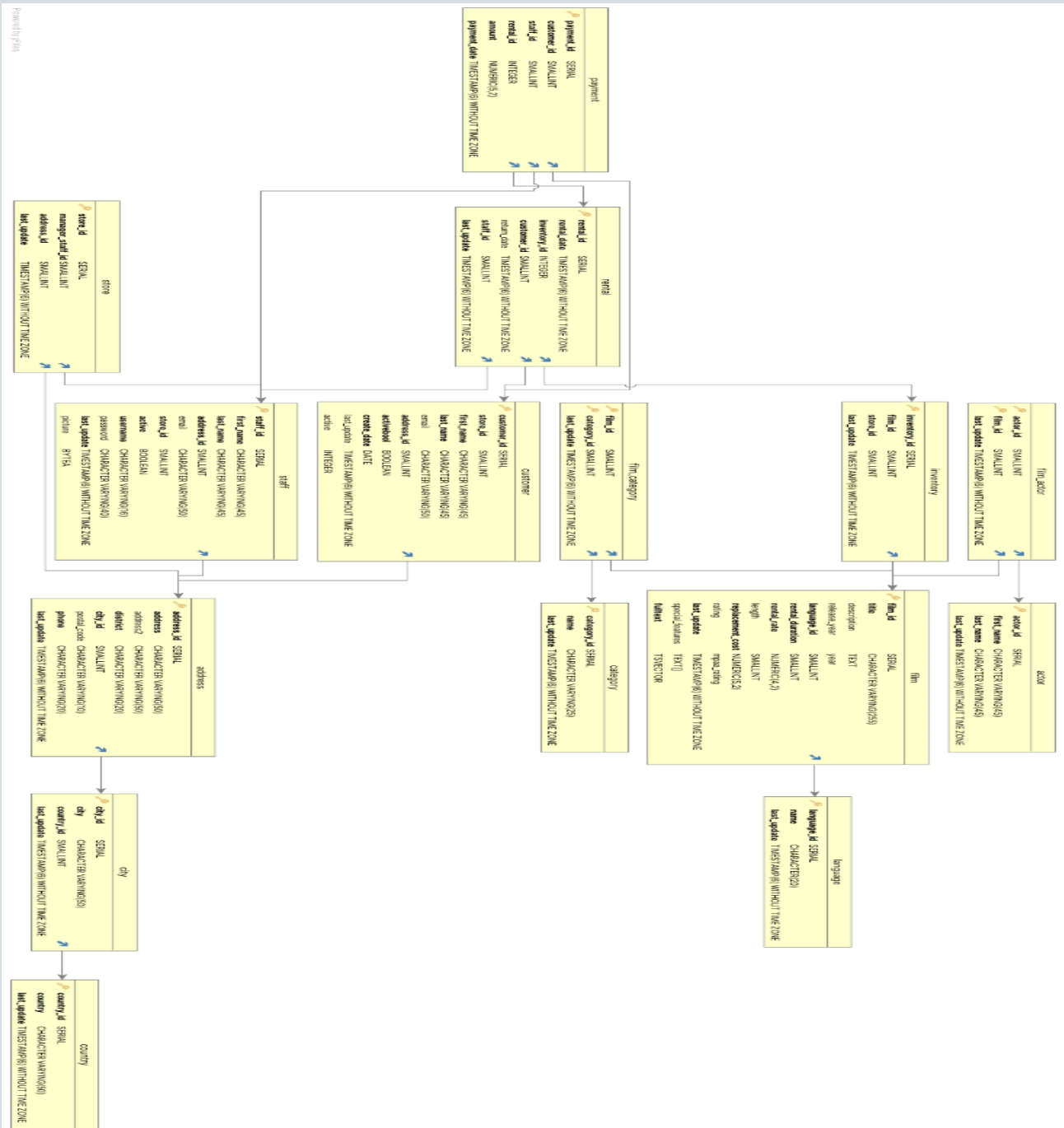
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1. Entity Relationship Diagram (ERD)



2. Tables

Primary Key
Foreign Key

2.1 Fact Table: Payment

Columns	Data Type	Description
payment_id	SERIAL	Primary Key; Surrogate field for payment value
customer_id	SMALLINT	Foreign Key; Unique ID for each customer
staff_id	SMALLINT	Foreign Key; Unique ID for each staff member
rental_id	INTEGER	Foreign Key; Unique ID for each movie rental
amount	NUMERIC (5,2)	Total Dollar Amount Related to each rental transaction
payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of each transaction

Links to

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

Rental

Columns	Data Type	Description
rental_id	SERIAL	Primary Key; Surrogate field for payment value
rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of Movie Rental
inventory_id	INTEGER	Foreign Key; Unique ID for each movie in inventory and link to inventory tables
customer_id	SMALLINT	Foreign Key; Unique ID for each customer
return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of Movie Rental Return
staff_id	SMALLINT	Foreign Key; Unique ID for each staff member
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

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

2.2 Dimension Table:

Film_actor

Columns	Data Type	Description
actor_id	SMALLINT	Foreign Key; Unique ID for each actor
film_id	SMALLINT	Foreign Key; Unique ID for each film
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links to

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

Inventory

Columns	Data Type	Description
inventory_id	SERIAL	Primary Key; Unique ID combining film and item location
film_id	SMALLINT	Foreign Key; Unique ID for each film
store_id	SMALLINT	Foreign Key; Unique ID for each store
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links to

Tables	Join
Film	Inventory.film_id = film.film_id

Links from

Tables	Join
Rental	rental.inventory_id = inventory.inventory_id

Film_category

Columns	Data Type	Description
film_id	SMALLINT	Foreign Key; Unique ID for each film
category_id	SMALLINT	Foreign Key; Unique ID for each film category
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links to

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

Customer

Columns	Data Type	Description
customer_id	SERIAL	Primary Key; Unique ID for each customer
store_id	SMALLINT	Unique ID for each store
first_name	CHARACTER VARYING (45)	First Name of each customer
last_name	CHARACTER VARYING (45)	Last Name of each customer
email	CHARACTER VARYING (50)	Email address of each customer
address_id	SMALLINT	Foreign Key linking address key to the address table
activebool	BOOLEAN	Active status of customer (True or False)
create_date	DATE	Date the customer's account was created
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record
active	INTEGER	Binary field of 0 and 1 used to indicate the customer's active status

Links to

Tables	Join
Address	customer.address_id = address.address_id

Links from

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

Staff

Columns	Data Type	Description
staff_id	SERIAL	Primary Key; Unique ID for each staff member
first_name	CHARACTER VARYING (45)	First Name of each staff member
last_name	CHARACTER VARYING (45)	Last Name of each staff member
address_id	SMALLINT	Foreign Key linking address key to the address table
email	CHARACTER VARYING (50)	Email address of each customer
store_id	SMALLINT	Unique ID for each store
active	BOOLEAN	Binary field of 0 and 1 used to indicate the member's active status
username	CHARACTER VARYING (16)	Username of each staff member
password	CHARACTER VARYING (40)	Password of each staff member
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record
picture	BYTEA	Image of each staff member

Links to

Tables	Join
Address	staff.address_id = address.address_id

Links from

Tables	Join
Rental	rental.staff_id = staff.staff_id
Store	store.address_id = staff.address_id
Payment	payment.staff_id = staff.staff_id

Store

Columns	Data Type	Description
store_id	SERIAL	Primary Key; Unique ID for each store
manager_staff_id	SMALLINT	Foreign Key; Unique ID for each store manager
address_id	SMALLINT	Foreign Key; Unique ID for each store's address
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links to

Tables	Join
Address	store.address_id = address.address_id
Staff	store.staff_id = staff.staff_id

Actor

Columns	Data Type	Description
actor_id	SERIAL	Foreign Key; Unique ID for each actor connecting to Actor Table
first_name	CHARACTER VARYING (45)	First Name of each actor
last_name	CHARACTER VARYING (45)	Last Name of each actor
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links from

Tables	Join
Film_actor	film_actor.film_id = actor.actor_id

Film

Columns	Data Type	Description
film_id	SERIAL	Unique ID of each film
title	CHARACTER VARYING (255)	Film title
description	TEXT	Brief film overview
release_year	year	Year of film release
language_id	SMALLINT	Unique ID for the language of each film
rental_duration	SMALLINT	Number of movie rental days
rental_rate	NUMERIC (4,2)	Total Dollar Amount Related to each rental transaction
length	SMALLINT	Film length (mins.)
replacement_cost	NUMERIC (5,2)	Film replacement cost
rating	mpaa_rating	The rating of each film
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record
special_features	TEXT []	The special features of each film
fulltext	TSVECTOR	Searchable term/tags related to the film

Links to

Tables	Join
Language	film.language_id = language.language_id

Links from

Tables	Join
Film_actor	film_actor.film_id = film.film_id
Film_category	film_category.film_id = film.film_id
Inventory	inventory.film_id = film.film_id

Category

Columns	Data Type	Description
category_id	SERIAL	Unique ID for each film category
name	CHARACTER VARYING (25)	Category name
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links from

Tables	Join
film_category	film_actor.category_id = category.category_id

Address

Columns	Data Type	Description
address_id	SERIAL	Primary Key; Unique ID for referencing address
address	CHARACTER VARYING (50)	Street Address
address2	CHARACTER VARYING (50)	Second line of address
district	CHARACTER VARYING (20)	State/Province/County of given address
city_id	SMALLINT	Foreign Key; Unique ID of each city
postal_code	CHARACTER VARYING (10)	Postal Code for each address
phone	CHARACTER VARYING (20)	Phone number for each address
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links to

Tables	Join
City	address.city_id = city.city_id

Links from

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

Language

Columns	Data Type	Description
language_id	SERIAL	Primary Key; Unique ID for the language of each film
name	CHARACTER (20)	Language name
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links from

Tables	Join
Film	film.language_id = language.language_id

City

Columns	Data Type	Description
city_id	SERIAL	Primary Key; Unique ID for each city
city	CHARACTER VARYING (50)	Name of the city
country_id	SMALLINT	Foreign Key; Unique ID of each country
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links to

Tables	Join
Country	city.country_id = country.country_id

Links from

Tables	Join
Address	address.city_id = city.city_id

Country

Columns	Data Type	Description
country_id	SERIAL	Primary Key; Unique ID for each country
country	CHARACTER VARYING (50)	Name of Country
last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time of last system update of this record

Links from

Tables	Join
City	city.country_id = country.country_id