

Rockbuster Stealth

Data Dictionary



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This document serves as a data dictionary for the PostgreSQL database supporting Rockbuster Stealth, a fictional global movie rental company. It outlines the database structure and presents clear, business-oriented descriptions of the key tables and fields used throughout the analysis.

Database Legend



Primary Key

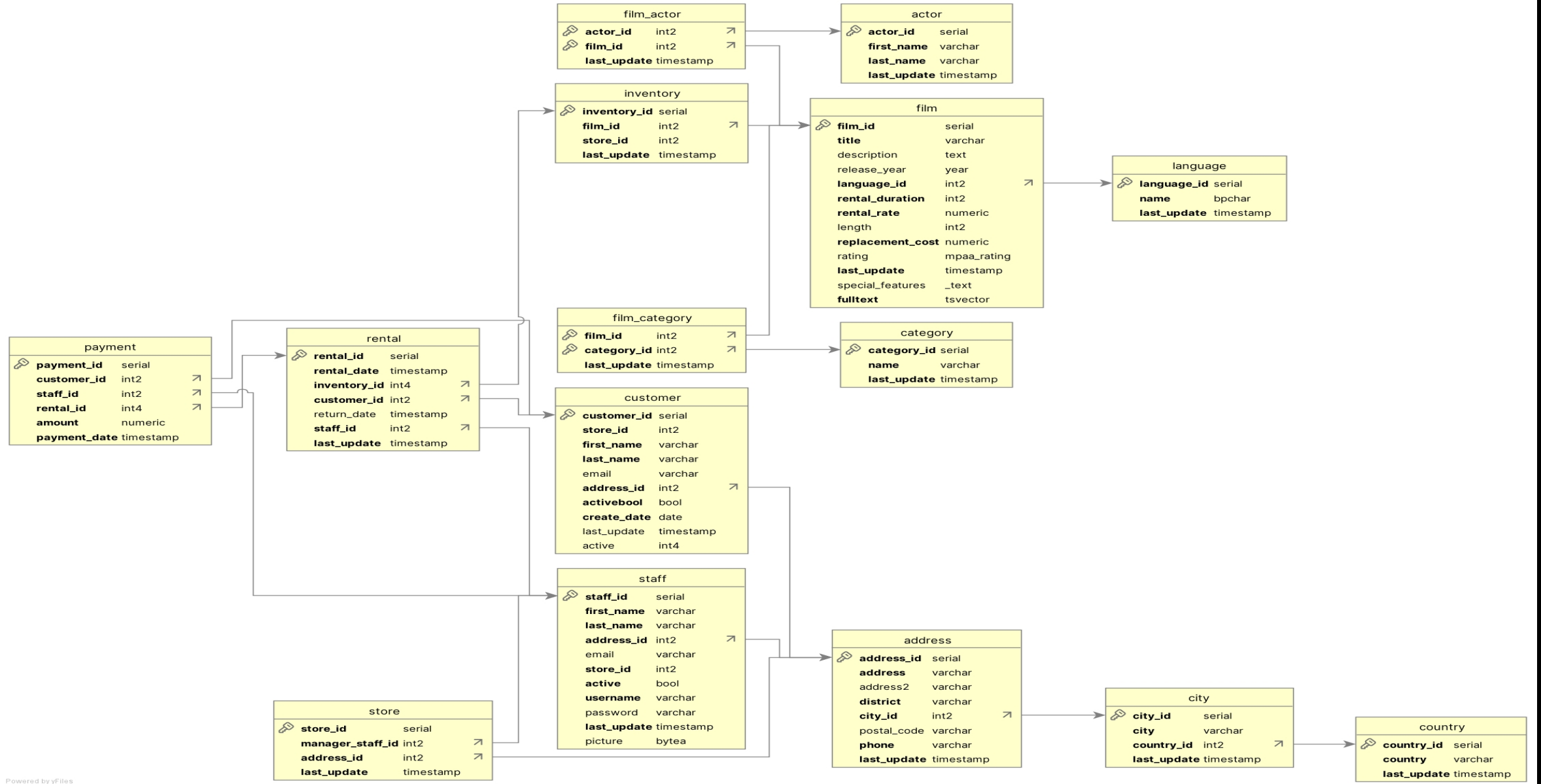
Uniquely identify each record within a table, ensuring data integrity and enabling efficient record retrieval. Every table contains a primary key field, typically named with an "_id" suffix.



Foreign Key





Establish relationships between tables by referencing primary keys in related tables. These connections enable complex queries across multiple tables and maintain referential integrity.

Entity Relationship Diagram (ERD)







Fact Tables

Payment Table

Column Name	Data Type	Description	Relationships
payment_id	serial	Unique identifier for payment transaction	
customer_id	smallint	Unique identifier for customer who made payment	
staff_id	smallint	Unique identifier for staff who processed transaction	
rental_id	integer	Rental record associated with payment	
amount	numeric(5,2)	Total amount customer paid for transaction	
payment_date	timestamp without time zone	Date and time when payment was recorded	


Fact Tables

Rental Table

Column Name	Data Type	Description	Relationships
rental_id	serial	Unique identifier for rental record	
rental_date	timestamp without time zone	Date and time of rental	
inventory_id	integer	Unique identifier for inventory	
customer_id	smallint	Unique identifier for customer who made payment	
return_date	timestamp without time zone	Date and time of rental return	
staff_id	smallint	Unique identifier for staff who processed transaction	
last_update	timestamp without time zone	Date and Time of last update	

Dimension Tables

Actor Table

Column Name	Data Type	Description	Relationships
actor_id	integer	Unique Identifier for the actor	
first_name	varchar(45)	First name of the actor	
last_name	varchar(45)	Last name of the actor	
last_update	timestamp without time zone	Date and Time of last update	


Dimension Tables

Address Table

Column Name	Data Type	Description	Relationships
address_id	integer	Unique Identifier for the address	🔑
address	varchar(50)	Street name or number	
address2	varchar(50)	Additional address information	
district	varchar(20)	District or state	
city_id	serial	Unique Identifier for the city	🔑
postal_code	varchar(10)	ZIP code	
phone	varchar(20)	Phone number	
last_update	timestamp without time zone	Date and Time of last update	



Dimension Tables

Category Table

Column Name	Data Type	Description	Relationships
category_id	serial	Unique Identifier for the category	
name	varchar(25)	Genre of the film	
last_update	timestamp without time zone	Date and Time of last update	


Dimension Tables

City Table

Column Name	Data Type	Description	Relationships
city_id	serial	Unique Identifier for the city	
city	varchar(50)	city name	
country_id	smallint	Unique Identifier for the country	
last_update	timestamp without time zone	Date and Time of last update	



Dimension Tables

Country Table

Column Name	Data Type	Description	Relationships
country_id	serial	Unique Identifier for the country	
country	varchar(50)	country name	
last_update	timestamp without time zone	Date and Time of last update	



Dimension Tables

Customer Table

Column Name	Data Type	Description	Relationships
customer_id	serial	Unique Identifier for the customer	
store_id	smallint	Unique identifier for the store	
first_name	varchar(45)	First name of the customer	
last_name	varchar(45)	Last name of the customer	
email	varchar(50)	Email of the customer	
address_id	smallint	Unique identifier for the customer address	
activebool	boolean	Active or inactive customer(true or false)	
create_date	date	Date of customer account creation	
last_update	timestamp without time zone	Date and Time of last update	
active	integer	Active or inactive customer(1 or 0)	





Dimension Tables

Film Table

Column Name	Data Type	Description	Relationships
film_id	serial	Unique Identifier for the film	
title	varchar(255)	Title of the film	
description	text	Film description	
release_year	integer	Year in which the film was released	
language_id	smallint	Unique identifier for language of film	
rental_duration	smallint	Number of days film was rented	
rental_rate	numeric(4,2)	Cost to rent the film	
length	smallint	Length of the film in minutes	
replacement_cost	numeric(5,2)	Price of rental (replacement cost)	
rating	Mpaa rating	Film rating (e.g., PG, R,G)	
last_update	timestamp without time zone	Date and Time of last update	
special_features	text	Extras like trailers, behind the scenes clips	
fulltext	tsvector	Film feature keywords	





Dimension Tables

Film Actor Table

Column Name	Data Type	Description	Relationships
actor_id	smallint	Unique identifier for the actor	 
film_id	smallint	Unique identifier for the film	 
last_update	timestamp without time zone	Date and Time of last update	




Dimension Tables

Film Category Table

Column Name	Data Type	Description	Relationships
film_id	smallint	Unique identifier for the film	 
category_id	smallint	Unique identifier for the film category	 
last_update	timestamp without time zone	Date and Time of last update	


Dimension Tables

Inventory Table

Column Name	Data Type	Description	Relationships
inventory_id	serial	Unique Identifier for the inventory	
film_id	smallint	Unique identifier for the film	
store_id	smallint	Unique identifier of store	
last_update	timestamp without time zone	Date and Time of last update	




Dimension Tables

Language Table

Column Name	Data Type	Description	Relationships
language_id	serial	Unique Identifier for the language	
name	char(20)	Language	
last_update	timestamp without time zone	Date and Time of last update	




Dimension Tables

Store Table

Column Name	Data Type	Description	Relationships
store_id	serial	Unique Identifier for the store	
manager_staff_id	smallint	Staff ID of the manager	
address_id	smallint	ID of the address	
last_update	timestamp without time zone	Date and Time of last update	

Dimension Tables

Staff Table

Column Name	Data Type	Description	Relationships
staff_id	serial	Unique Identifier for the staff member	
first_name	varchar(45)	first name of the staff member	
last_name	varchar(45)	Last name of the staff member	
address_id	smallint	Unique identifier for the address of staff member	
email	varchar(50)	Email of the staff member	
store_id	smallint	Unique identifier for the store	
active	boolean	Active or inactive staff(true or false)	
username	varchar(16)	Username of the staff member	
password	varchar(40)	Password of the staff member	
last_update	timestamp without time zone	Date and Time of last update	
picture	bytea	Photo of the staff member	



Thank You....