

ROCKBUSTER DATABASE

DATA DICTIONARY

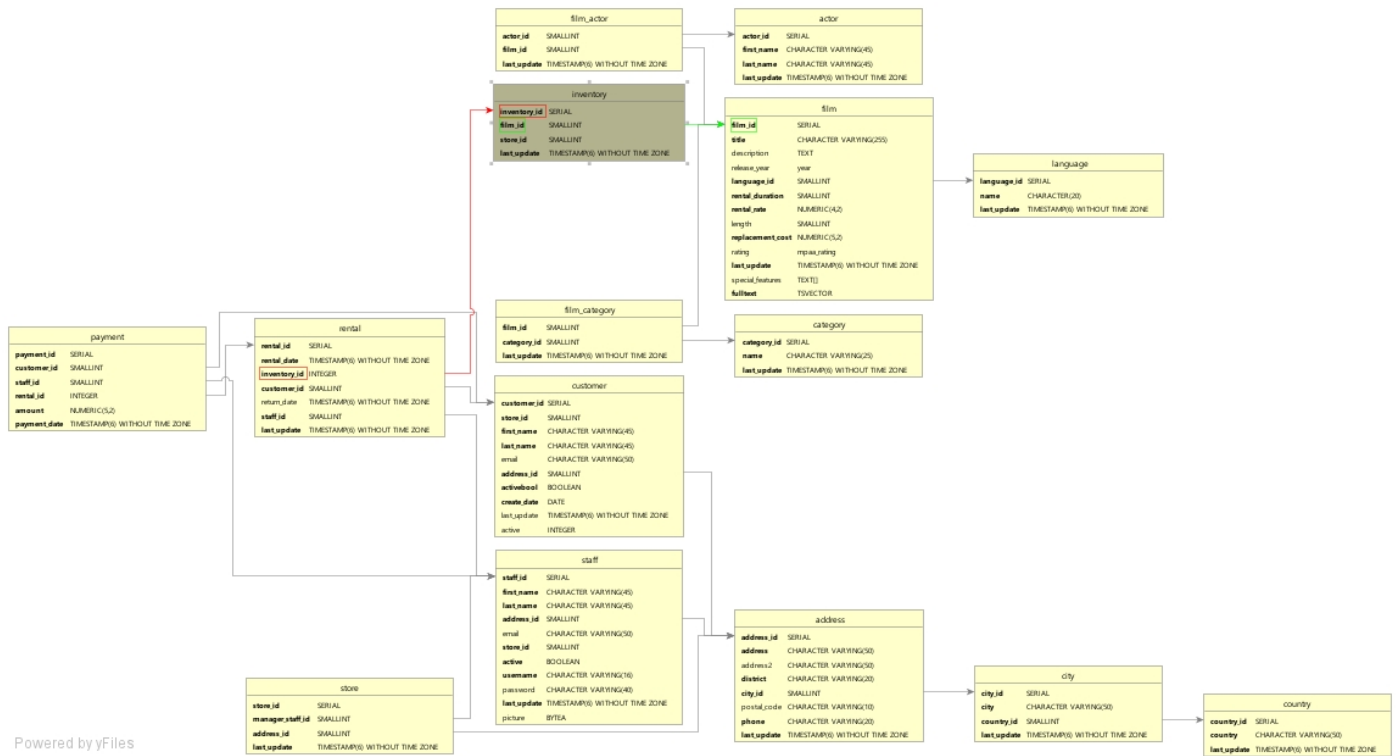
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2. Entity Relationship Diagram



3. Legend:

Primary Key

Foreign Key

4. Fact Tables

4.1 FACT TABLE: RENTAL

Columns	Data Type	Description	Link to
rental_id	SERIAL	Unique id assigned to each movie rental	payment
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the movie was rented	
inventory_id	INTEGER	id code assigned for inventory record keeping	inventory
customer_id	SMALLINT	Unique id of customer renting movie	customer
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date movie was returned	
staff_id	SMALLINT	Unique id of staff members	staff
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last status update	

4.2 FACT TABLE: PAYMENT

Column	Data Type	Description	Links To
payment_id	SERIAL	unique id assigned to each payment	
customer_id	SMALLINT	unique id assigned to each customer	
staff_id	SMALLINT	unique id assigned to each staff member	staff
rental_id	INTEGER	unique id assigned to each rental	rental
amount	NUMERIC(5,2)	amount of payment	
payment date	TIMESTAMP(6) WITHOUT TIME ZONE	time of payment	

5. Dimension Tables

5.1 DIMENSION TABLE: INVENTORY

Columns	Data Type	Description	Links To
inventory_id	SERIAL	id assigned for inventory record keeping	rental
film_id	SMALLINT	unique id assigned to each film	film
store_id	SMALLINT	Unique id assigned to each store	store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last status update	

5.2 DIMENSION TABLE: CUSTOMER

Column	Data Type	Decription	Links To
customer_id	SERIAL	Unique id assigned to each customer	payment, rental
store_id	SMALLINT	unique id assigned to each store	store
first_name	CHARACTER VARYING(45)	Customer's first name	
last_name	CHARACTER VARYING (45)	Customer's last name	
email	CHARACTER VARYING (45)	Customer's email address	
address_id	SMALLINT	unique id assigned used as key to address table	address
activebool	BOOLEAN	whether or not customer is active	
create_date	DATE	date account was created	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last status update	
active	INTEGER		

5.3 DIMENSION TABLE: STAFF

Column	Data Type	Description	Links To
staff_id	SERIAL	unique id assigned to each staff member	
first_name	CHARACTER VARYING(45)	Staff member's first name	
last_name	CHARACTER VARYING(45)	Staff member's last name	
address_id	SMALLINT	unique id used as key to address table	address
email	CHARACTER VARYING(45)	Staff members email address	
active	BOOLEAN	whether or not staff member is active	
username	CHARACTER VARYING(45)	staff member's username	
password	CHARACTER VARYING(45)	staff member's password	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last status update	
picture	BYTEA	employee picture	

5.4 DIMENSION TABLE: ADDRESS

Column	Data Type	Description	Links To
address_id	SERIAL	unique id used as key to address table	customer, staff, store
address	CHARACTER VARYING(50)	first postal address line	
address2	CHARACTER VARYING(50)	second postal address line	
district	CHARACTER VARYING(20)	address State/Province	
city_id	SMALLINT	unique code used as key to city table	city
postal_code	CHARACTER VARYING(10)	address postal code	
phone	CHARACTER VARYING(20)	phone number	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last status update	

5.5 DIMENSION TABLE: CITY

Column	Data Type	Description	Links To
city_id	SERIAL	unique id used as key to city table	address
city	CHARACTER VARYING(50)	name of city	
country_id	SMALLINT	unique id used as key to country table	country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update	

5.6 DIMENSION TABLE: COUNTRY

Column	Data Type	Description	Links To
country_id	SERIAL	unique id used as key to country table	city
country	CHARACTER VARYING(50)	name of country	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update.	

5.7 DIMENSION TABLE: STORE

Column	Data Type	Description	Links To
store_id	SERIAL	unique id for each store	customer, inventory, staff
manager_staff_id	SMALLINT	staff id number of store manager	
address_id	SMALLINT	address id number, key to address table	address
last_update	TIMESTAMT(6) WITHOUT TIME ZONE	time of last update	

5.8 DIMENSION TABLE: FILM_ACTOR

column	Data Type	Description	Links To
actor_id	SMALLINT	unique id for each actor	actory
film_id	SMALLINT	unique id for each film	film
last_update	TIMESTAMP(6) WITOUT TIME ZONE	time of last update	

5.9 DIMENSION TABLE: FILM_CATEGORY

Column	Data Type	Description	Links To
film_id	SMALLINT	unique id for each film	film
category_id	SMALLINT	unique id for each genre	category
last_update	TIMESTAMP(6) WITHOUT TME ZONE	time of last update	

5.10 DIMENSION TABLE: ACTOR

Column	Data type	Description	Links To
actor_id	SERIAL	unique id for each actor	film_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	time of last update	

5.11 DIMENSION TABLE: FILM

Column	Data Type	Description	Links To
film_id	SERIAL	unique id for each film	film_actor, film_category, inventory
title	CHARACTER VARYING(255)	title of film	
description	TEXT	brief description of plot	
release_year	year	year film was released	
language_id	SMALLINT	unique id for each language	language
rental_duration	SMALLINT	length film was rented for	
rental_rate	NUMERIC(4,2)	cost of rental	
length	SMALLINT	length of film	
replacement_cost	NUMERIC(5,2)	cost to replace film if lost or damaged	
rating	mpaa_rating	film's mpaa rating	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update	
special_features	TEXT	special features included with film	
fulltext	TSVECTOR	key words	

5.12 DIMENSION TABLE: CATEGORY

Column	Data Type	Description	Links To
category_id	SERIAL	unique id for each genre	film_category
name	CHARACTER VARYING(25)	name of genre	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update	

5.13 DIMENSION TABLE: LANGUAGE

column	Data Type	Description	Links To
language_id	SERIAL	unique id given to each language	language
name	CHARACTER	name of language	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update	