Rockbuster Database

Data Dictionary

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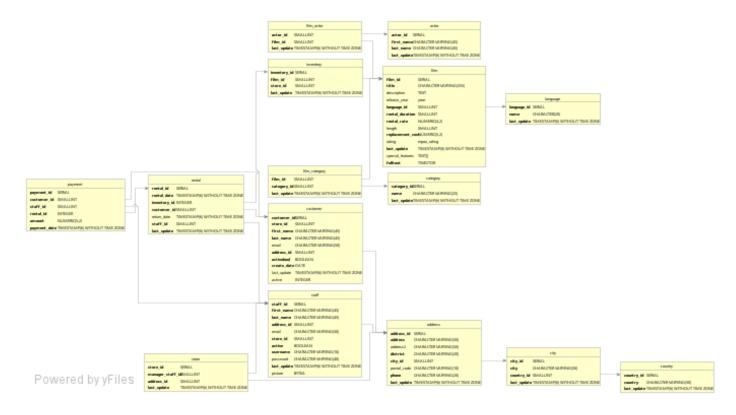Robert.cheadle01@gmail.com

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2. Entity Relationship Diagram

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Primary Key

Foreign Key

4. Fact Table

4.1: Rental

rental			
Columns	**Data Type**	**Description**	**Link to**
rental_id	**SERIAL**	**Autogenerated ID number for unique rental entry**	**payment**
rental_date	**TIMESTAMP(6) WITHOUT TIME ZONE**	**Date and time of rental event**	
inventory_id	**INTEGER**	**Inventory ID number**	**inventory**
customer_id	**SMALLINT**	**Customer ID number**	**customer**
return_date	**TIMESTAMP(6) WITHOUT TIME ZONE**	**Date and time rental was returned**	
staff_id	**SMALLINT**	**Staff ID number**	**staff**
last_update	**TIMESTAMP(6) WITHOUT TIME ZONE**	**Date and time of last data update**	

4.2: Payment

payment			
Columns	**Data Type**	**Description**	**Link to**
payment_id	**SERIAL**	**Autogenerated ID number for unique payment entry**	
customer_id	**SMALLINT**	**Customer ID number**	**customer**
staff_id	**SMALLINT**	**Staff ID number**	**staff**
rental_id	**INTEGER**	**Rental ID number**	**rental**
amount	**NUMERIC(5,2)**	**Payment amount**	
payment_date	**TIMESTAMP(6) WITHOUT TIME ZONE**	**Date and time of payment**	

5. Dimension Tables

5.1: Customer

customer			
Columns	**Data Type**	**Description**	**Link to**
customer_id	SERIAL	Autogenerated ID number for unique customer entry	payment, rental
store_id	SMALLINT	Store ID number	store
first_name	CHRACTER VARYING(45)	Customer's first name	
last_name	CHRACTER VARYING(45)	Customer's last name	
email	CHRACTER VARYING(50)	Customer's email address	
address_id	SMALLINT	Customer's address ID number	address
activebool	BOOLEAN	Describes whether a customer's account is active (True/False)	
create_date	DATE	Date customer account was created	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	
active	INTEGER	Describes whether a customer's is currently renting	

5.2: Staff

staff			
Columns	Data Type	Description	Link to
staff_id	SERIAL	Autogenerated ID number for unique staff member entry	
first_name	CHARACTER VARYING(45)	Staff member's first name	
last_name	CHARACTER VARYING(45)	Staff member's last name	
address_id	SMALLINT	Staff member's address ID number	address
email	CHARACTER VARYING(50)	Staff member's email address	
store_id	SMALLINT	Store ID number where employee is staffed	store
active	BOOLEAN	Describes whether employee is still employed by Rockbuster	
username	CHARACTER VARYING(16)	Employee's company login username	
password	CHARACTER VARYING(40)	Employee's company login password	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	
picture	BYTEA	Image of employee	

5.3: Store

store			
Columns	**Data Type**	**Description**	**Link to**
store_id	SERIAL	Autogenerated ID number for unique store entry	customer, inventory, staff
manager_staff_id	SMALLINT	ID number for store manager	
address_id	SMALLINT	ID number for store address	address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	

5.4: Address

address			
Columns	**Data Type**	**Description**	**Link to**
address_id	SERIAL	Autogenerated ID for unique customer, store, and staff address entry	customer, staff, store
address	CHARACTER VARYING(50)	local address	
address2	CHARACTER VARYING(50)	additional local address information	
district	CHARACTER VARYING(20)	state/province/region	
city_id	SMALLINT	ID number identifying city of customer, staff, and store address	city
postal_code	CHARACTER VARYING(10)	postal code of address	
phone	CHARACTER VARYING(20)	phone number at address	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	

5.5: City

city			
Columns	**Data Type**	**Description**	**Link to**
city_id	SERIAL	Autogenerated ID number for each unique city entry	address
city	CHARACTER VARYING(50)	city name	
country_id	SMALLINT	Country ID number	country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	

5.6: Country

country			
Columns	**Data Type**	**Description**	**Link to**
country_id	SERIAL	Autogenerated ID number for each unique country entry	city
country	CHARACTER VARYING(50)	country name	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	

5.7: Inventory

inventory			
Columns	**Data Type**	**Description**	
inventory_id	SERIAL	Autogenerated ID number for unique inventory entry	rental
film_id	SMALLINT	Film ID number	film
store_id	SMALLINT	Store ID number	store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	

5.8: Film

film			
Columns	Data Type	Description	Link to
film_id	SERIAL	Autogenerated ID number for unique film entry	film actor, film, category, inventory
title	CHARACTER VARYING(255)	Film's title	
description	TEXT	A description of the film	
release_year	year	Year the film was released	
language_id	SMALLINT	Language ID number	language
rental_duration	SMALLINT	maximum length of time film may be rented	
rental_rate	NUMERIC(4,2)	cost of renting a particular film	
length	SMALLINT	length of film in minutes	
replacement_cost	NUMERIC(5,2)	cost to replace film	
rating	mpaa_rating	Official MPAA film rating	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	
special_features	TEXT	describes and special feature which accompany the film (i.e., trailers and commentaries)	
fulltext	TSVECTOR	converted array of text string s	

5.9: Language

language			
Columns	Data Type	Description	Link to
language_id	SERIAL	Autogenerated ID number for unique language entry	film
name	CHARACTER(20)	language name	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	

5.10: Film Actor

film actor			
Columns	Data Type	Description	Link to
actor_id	SMALLINT	Actor ID number	actor
film_id	SMALLINT	Film ID Number	film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	

5.11: Actor

actor			
Columns	Data Type	Description	Link to
actor_id	SERAIL	Autogenerated ID number for unique actor entry	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	Date and time of last data update	

5.12: Film Category

film category			
Columns	Data Type	Description	Link to
film_id	SMALLINT	Film ID number	film
category_id	SMALLINT	Film category ID number	category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	

5.13: Category

category			
Columns	Data Type	Description	Link to
category_id	SERIAL	Autogenerated ID number for unique film category	film category
name	CHARACTER VARYING(25)	Film category name	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last data update	