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Rockbuster Stealth

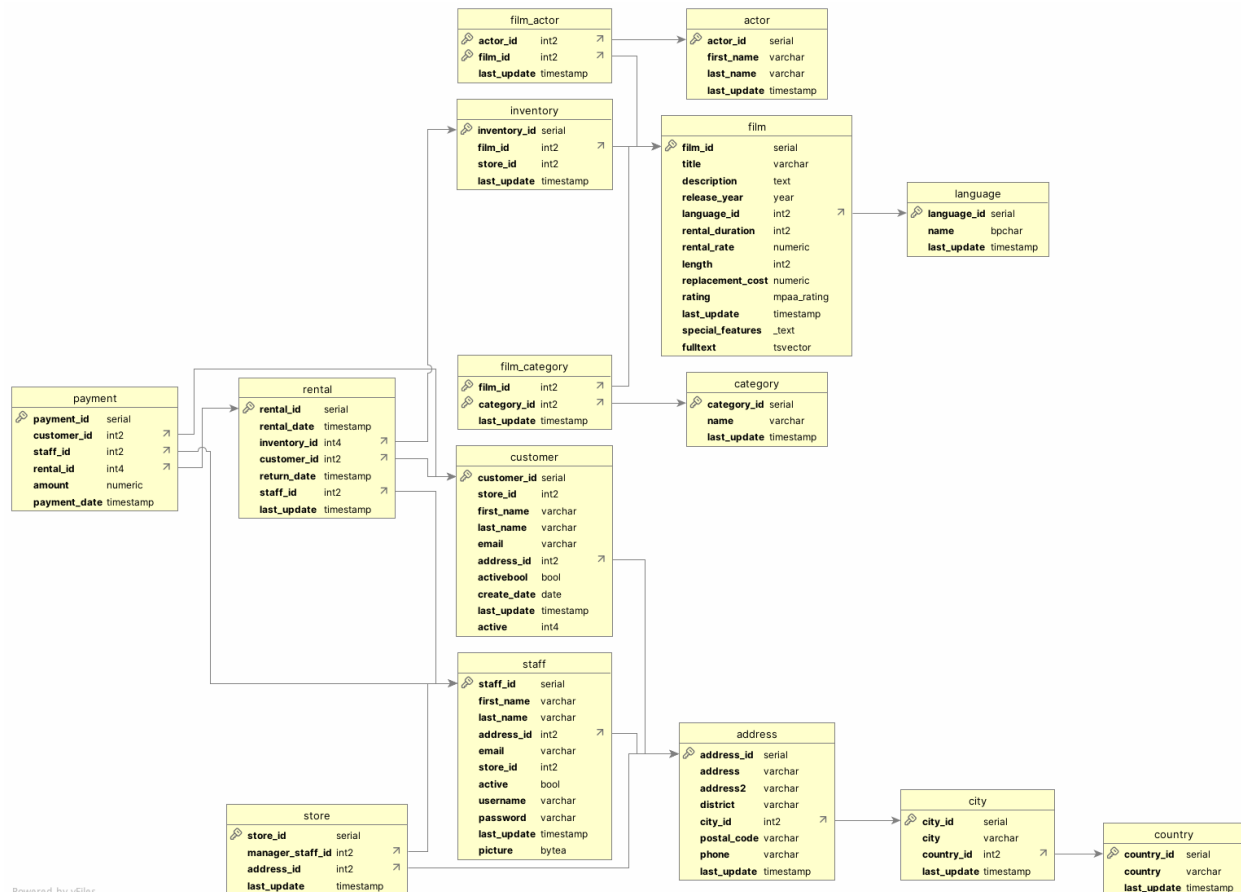
Data Dictionary

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1. Entity Relationship Diagram

"Rockbuster Stealth" relational database is structured according to a snowflake schema.



2. Tables

2.1. Fact tables

2.1.1. Payment

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
payment_id	Primary	serial	unique identifier of the transaction
customer_id	Foreign	int2	unique customer number
staff_id	Foreign	int2	unique staff number
rental_id	Foreign	int4	unique rental number
amount	-	numeric	money that has been paid
payment_date	-	timestamp	time of payment

2.1.2. Rental

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
rental_id	Primary	serial	unique rental number
rental_date	-	timestamp	time of rental
inventory_id	Foreign	int4	unique inventory number
customer_id	Foreign	int2	unique customer number
return_date	-	timestamp	time of returning inventory
staff_id	Foreign	int2	unique staff number
last_update	-	timestamp	system update time

2.2. Dimension tables

2.2.1. Actor

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
actor_id	Primary	serial	unique actor number
first_name	-	varchar	actor's first name
last_name	-	varchar	actor's last name
last_update	-	timestamp	system update time

2.2.2. Address

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
address_id	Primary	serial	unique address number
address	-	varchar	address (first line)
address2	-	varchar	address (second line if applicable) – mostly empty
district	-	varchar	geographic region
city_id	Foreign	int2	unique city number
postal_code	-	varchar	postal number
phone	-	varchar	phone number
last_update	-	timestamp	system update time

2.2.3. Category

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
category_id	Primary	serial	unique category number
name	-	varchar	category name (e.g.: action, animation, children, classics)
last_update	-	timestamp	system update time

2.2.4. City

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
city_id	Primary	serial	unique city number
city	-	varchar	city name
country_id	Foreign	int2	unique country number
last_update	-	timestamp	system update time

2.2.5. Country

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
country_id	Primary	serial	unique country number
country	-	varchar	country name
last_update	-	timestamp	system update time

2.2.6. Customer

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
customer_id	Primary	serial	unique customer number
store_id	Foreign	int2	unique store number
first_name	-	varchar	Customer's first name
last_name	-	varchar	Customer's last name
email	-	varchar	Customer's email
address_id	Foreign	int2	unique address number
activebool	-	bool	Customer's activity status
create_date	-	date	date when customer first joined the rental company
last_update	-	timestamp	system update time
active	-	int4	Customer's activity status

2.2.7. Film

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
film_id	Primary	serial	unique film number
title	-	varchar	title of the movie
description	-	text	brief description of the movie
release_year	-	year	year movie came out
language_id	Foreign	int2	unique language number
rental_duration	-	int2	how long one rental lasts
rental_rate	-	numeric	how much rental costs
length	-	int2	movie duration in minutes
replacement_cost	-	numeric	payment if not return
rating	-	mpaa_rating	parental controls and restrictions
last_update	-	timestamp	system update time
special_features	-	_text	e.g.: "trailers", "deleted scenes", "commentaries", "behind the scenes"

fulltext	-	tsvector	keywords based on title and description
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2.2.8. Film actor

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
actor_id	Primary	int2	unique actor number
film_id	Foreign	int2	unique film number
last_update	-	timestamp	system update time

2.2.9. Film category

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
film_id	Primary	int2	unique film number
category_id	Foreign	int2	unique category number
last_update	-	timestamp	system update time

2.2.10. Inventory

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
inventory_id	Primary	serial	unique inventory number
film_id	Foreign	int2	unique film number
store_id	Foreign	int2	unique store number
last_update	-	timestamp	system update time

2.2.11. Language

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
language_id	Primary	serial	unique language number
name	-	bpchar	language name
last_update	-	timestamp	system update time

2.2.12. Staff

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
staff_id	Primary	serial	unique employee's number
first_name	-	varchar	employee's first name

last_name	-	varchar	employee's last name
address_id	Foreign	int2	unique address number
email	-	varchar	employee's email
store_id	Foreign	int2	unique store number
active	-	bool	employee's work status
username	-	varchar	username – employee's first name
password	-	varchar	strong password identical for all employees
last_update	-	timestamp	system update time
picture	-	bytea	employee's picture

2.2.13. Store

<i>Columns</i>	<i>Key</i>	<i>Data type</i>	<i>Description</i>
store_id	Primary	serial	unique store number
manager_staff_id	Foreign	int2	unique manager number
address_id	Foreign	int2	unique address number
last_update	-	timestamp	system update time