



Rockbuster Stealth LLC

Data Dictionary

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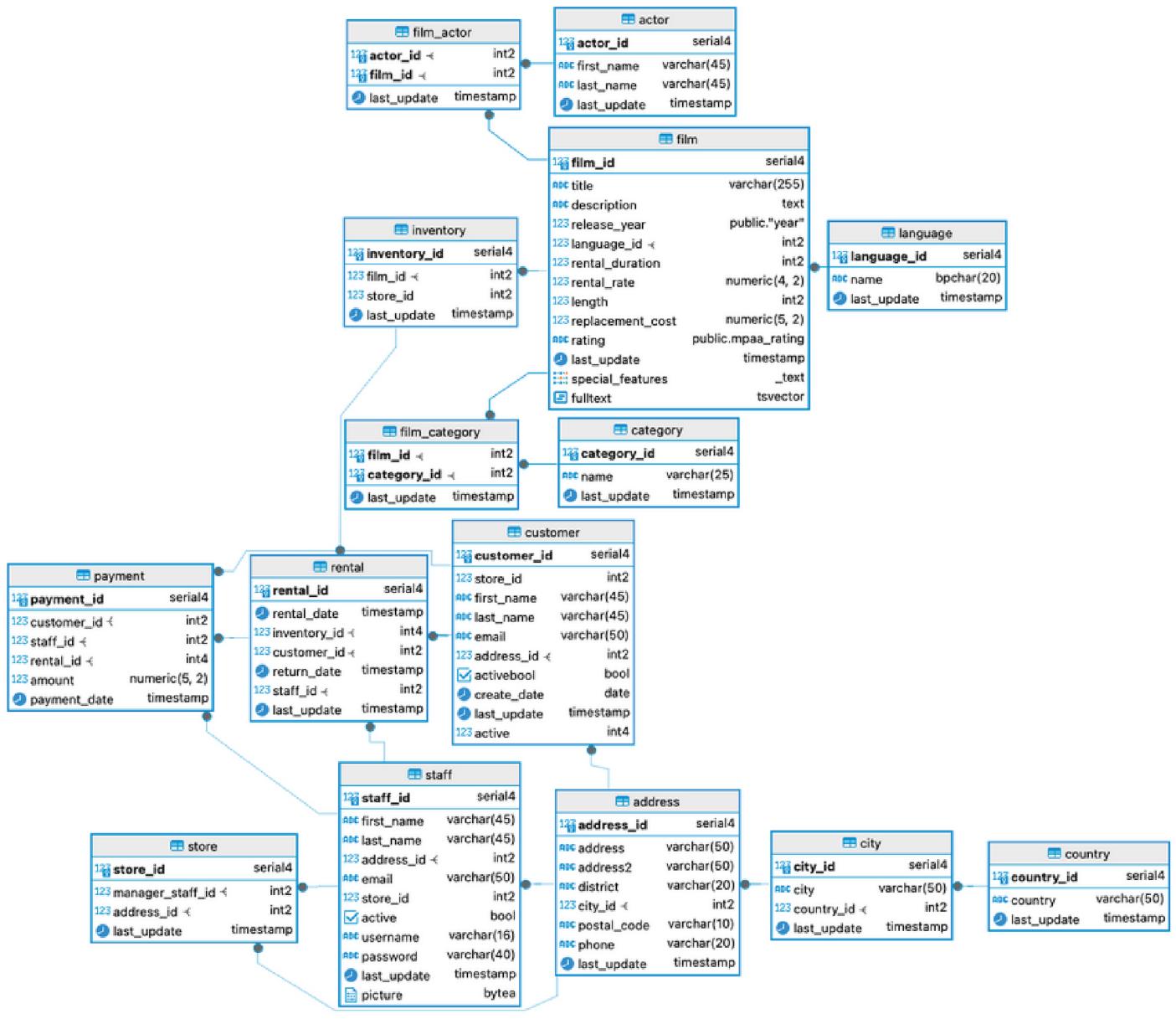
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1. Rockbuster Stealth LLC

Rockbuster Stealth LLC is a fictional company for course learning and project completion.

They are a movie rental company that maintains their own relational database that is detailed in this document. The company tracks their customers, staff, transactions, and inventory. Scenarios include CRM, HR, Sales, Product Management, and Accounting.

2. Entity Relationship Diagram (ERD)



Primary Key

Foreign Key

3. Tables

Fact

3.1 payment

COLUMNS	DATA TYPE	DESCRIPTION
payment_id	SERIAL	primary key (PK): unique identifier for payments
customer_id	SMALLINT	foreign key; link to customer table
staff_id	SMALLINT	foreign key; link to staff table
rental_id	INTEGER	foreign key; link to rental table
amount	NUMERIC(5,2)	currency/accounting - monetary amount of payment received
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

3.2 rental

COLUMNS	DATA TYPE	DESCRIPTION
rental_id	SERIAL	primary key (PK): unique identifier for rentals
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was removed from inventory
inventory_id	INTEGER	foreign key; link to inventory table
customer_id	SMALLINT	foreign key; link to customer table
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the rental is required to be back in inventory
staff_id	SMALLINT	foreign key; link to staff table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

Dimension

3.3 customer

COLUMNS	DATA TYPE	DESCRIPTION
customer_id	SERIAL	primary key (PK): unique identifier for customers
store_id	SMALLINT	unique identifier for stores
first_name	CHARACTER VARYING(45)	text of customer first name
last_name	CHARACTER VARYING(45)	text of customer last name
email	CHARACTER VARYING(50)	text of customer email address
address_id	SMALLINT	foreign key; link to address table
activebool	BOOLEAN	true/false - if the customer is active or not
create_date	DATE	(YYYY-MM-DD) - date customer record was taken
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)
active	INTEGER	whole number – if the customer is active or not

3.4 address

COLUMNS	DATA TYPE	DESCRIPTION
address_id	SERIAL	primary key (PK): unique identifier for addresses
address	CHARACTER VARYING(50)	text of customer line 1 address (number & street)
Address2	CHARACTER VARYING(50)	text of customer line 2 address if needed
district	CHARACTER VARYING(20)	text of address district
city_id	SMALLINT	foreign key; link to city table
postal_code	CHARACTER VARYING(10)	text of address postal code
phone	CHARACTER VARYING(20)	text of customer phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

3.5 city

COLUMNS	DATA TYPE	DESCRIPTION
city_id	SERIAL	primary key (PK): unique identifier for cities
city	CHARACTER VARYING(50)	text of customer address city
country_id	SMALLINT	foreign key; link to country table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

3.6 country

COLUMNS	DATA TYPE	DESCRIPTION
country_id	SERIAL	primary key (PK): unique identifier for countries
country	CHARACTER VARYING(50)	text of customer address country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

Tables

3.7 staff

COLUMNS	DATA TYPE	DESCRIPTION
staff_id	SERIAL	primary key (PK): unique identifier for staff
first_name	CHARACTER VARYING(45)	text of staff first name
last_name	CHARACTER VARYING(45)	text of staff last name
address_id	SMALLINT	foreign key; link to address table
email	CHARACTER VARYING(50)	text of staff email address
store_id	SMALLINT	unique identifier for stores
active	BOOLEAN	true/false – if the customer is active or not
username	CHARACTER VARYING(16)	text of staff username
password	CHARACTER VARYING(40)	text of staff password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)
picture	BYTEA	image file – staff photo

3.8 store

COLUMNS	DATA TYPE	DESCRIPTION
store_id	SERIAL	primary key (PK): unique identifier for stores
manager_staff_id	SMALLINT	foreign key; link to staff table
address_id	SMALLINT	foreign key; link to address table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

3.9 film_category

COLUMNS	DATA TYPE	DESCRIPTION
film_id	SMALLINT	primary key (PK) foreign key; link to film table
category_id	SMALLINT	primary key (PK) foreign key; link to category table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

3.10 category

COLUMNS	DATA TYPE	DESCRIPTION
category_id	SERIAL	primary key (PK): unique identifier for categories
name	CHARACTER VARYING(25)	text of category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

3.11 film_actor

COLUMNS	DATA TYPE	DESCRIPTION
actor_id	SMALLINT	primary key (PK) foreign key; link to actor table
film_id	SMALLINT	primary key (PK) foreign key; link to film table
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

3.12 actor

COLUMNS	DATA TYPE	DESCRIPTION
actor_id	SERIAL	primary key (PK): unique identifier for actors
first_name	CHARACTER VARYING(45)	text of actor first name
last_name	CHARACTER VARYING(45)	text of actor last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

3.13 inventory

COLUMNS	DATA TYPE	DESCRIPTION
inventory_id	SERIAL	primary key (PK): unique identifier for inventory items
film_id	SMALLINT	foreign key; link to film table
store_id	SMALLINT	unique identifier for stores
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)

Tables

3.14

film

COLUMNS	DATA TYPE	DESCRIPTION
film_id	SERIAL	primary key (PK): unique identifier for films
title	CHARACTER VARYING(255)	text of film title name
description	TEXT	unstructured text of film summary
release_year	year	date film was released to public
language_id	SMALLINT	foreign key; link to language table
rental_duration	SMALLINT	duration of rental period length usually in nights (or days)
rental_rate	NUMERIC(4,2)	currency/accounting - monetary amount of rental fee
length	SMALLINT	duration of film length usually in minutes
replacement_cost	NUMERIC(5,2)	currency/accounting - monetary amount of inventory item
rating	mpaa_rating	code of mpaa rating of the film (G, PG, PG-13, R, NC-17)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)
special_features	TEXT[]	text array – multiple text features of a film like tags or genres
fulltext	TSVECTOR	text search – allows for searching using full-text search queries

3.15

language

COLUMNS	DATA TYPE	DESCRIPTION
language_id	SERIAL	primary key (PK): unique identifier for languages
name	CHARACTER(20)	text of language name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date & Time the record was last updated (changed)