JTanalytics

Rockbuster Stealth LLC

Data Dictionary

James Talbot

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ERD

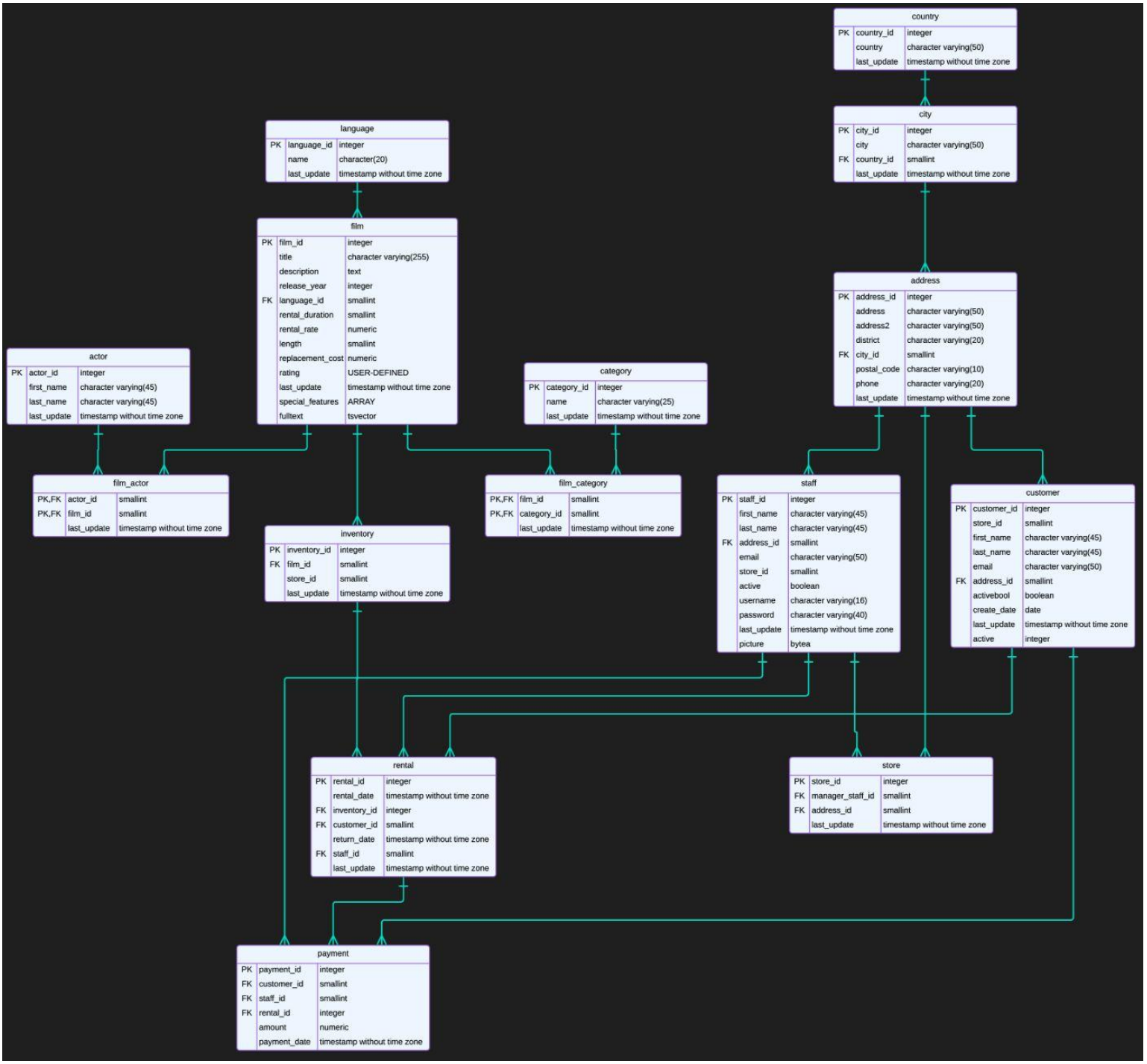
country
PK country_id integer
country character varying(50)
last_update timestamp without time zone
city
PK city_id integer
city character varying(50)
FK country_id smallint
last_update timestamp without time zone
language
PK language_id integer
name character(20)
last_update timestamp without time zone
film
PK film_id integer
title character varying(255)
description text
release_year integer
FK language_id smallint
rental_duration smallint
rental_rate numeric
length smallint
replacement_cost numeric
rating USER-DEFINED
last_update timestamp without time zone
special_features ARRAY
fulltext tsvector
address
PK address_id integer
address character varying(50)
address2 character varying(50)
district character varying(20)
FK city_id smallint
postal_code character varying(10)
phone character varying(20)
last_update timestamp without time zone
actor
PK actor_id integer
first_name character varying(45)
last_name character varying(45)
last_update timestamp without time zone
category
PK category_id integer
name character varying(25)
last_update timestamp without time zone
film_actor
PK,FK actor_id smallint
PK,FK film_id smallint
last_update timestamp without time zone
film_category
PK,FK film_id smallint
PK,FK category_id smallint
last_update timestamp without time zone
staff
PK staff_id integer
first_name character varying(45)
last_name character varying(45)
FK address_id smallint
email character varying(50)
store_id smallint
active boolean
username character varying(16)
password character varying(40)
last_update timestamp without time zone
picture bytea
customer
PK customer_id integer
store_id smallint
first_name character varying(45)
last_name character varying(45)
email character varying(50)
FK address_id smallint
activebool boolean
create_date date
last_update timestamp without time zone
active integer
inventory
PK inventory_id integer
FK film_id smallint
store_id smallint
last_update timestamp without time zone
rental
PK rental_id integer
rental_date timestamp without time zone
FK inventory_id integer
FK customer_id smallint
return_date timestamp without time zone
FK staff_id smallint
last_update timestamp without time zone
store
PK store_id integer
FK manager_staff_id smallint
FK address_id smallint
last_update timestamp without time zone
payment
PK payment_id integer
FK customer_id smallint
FK staff_id smallint
FK rental_id integer
amount numeric
payment_date timestamp without time zone

Table: actor

Name and ID of actors.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	actor_id	integer	Actor ID
	first_name	character varying(45)	Actor first name
	last_name	character varying(45)	Actor last name
	last_update	timestamp without time zone	Date of last update

Links From

Links From	Join	Description
film_actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing film_actor.actor_id

Unique Keys

- actor_id

Table: address

Address information for customers, staff and stores.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	address_id	integer	Staff/Customer/Store Address ID
	address	character varying(50)	Staff/Customer/Store Address Line 1
	address2	character varying(50)	Staff/Customer/Store Address Line 2
	district	character varying(20)	Staff/Customer/Store Address District
Foreign	city_id	smallint	Staff/Customer/Store Dity ID
	postal_code	character varying(10)	Staff/Customer/Store Postcode
	phone	character varying(20)	Staff/Customer/Store Phone Number
	last_update	timestamp without time zone	Date of last update

Links To

Links To	Join	Description
city	address.city_id= city.city_id	Foreign key constraint referencing address.city_id

Links From

Links From	Join	Description
customer	customer.address_id = address.address_id	Foreign key constraint referencing customer.address_id
staff	staff.address_id = address.address_id	Foreign key constraint referencing staff.address_id
store	store.address_id = address.address_id	Foreign key constraint referencing store.address_id

Unique Keys

- address_id

Table: category

Genre (category) information for each film.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	category_id	integer	Film category/genre ID
	name	character varying(25)	Film category/genre
	last_update	timestamp without time zone	Date of last update

Links From

Links From	Join	Description
film_category	film_category.category_id = category.category_id	Foreign key constraint referencing film.category.category_id

Unique Keys

- category_id
- name

Table: city

City information for addresses.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	city_id	integer	City ID
	city	character varying(255)	Address City
Foreign	country_id	smallint	Country ID
	last_update	timestamp without time zone	Date of last update

Links To

Links To	Join	Description
country	country.country_id = country.country_id	Foreign key constraint referencing country.country_id

Links From

Links From	Join	Description
address	address.city_id = city.city_id	Foreign key constraint referencing address.city_id

Unique Keys

- city_id

Table: country

Information about countries for addresses.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	country_id	integer	Country ID
	country	character varying(50)	Country
	last_update	timestamp without time zone	Date of last update

Links From

Links From	Join	Description
city	city.country_id = country.country_id	Foreign key constraint referencing city.country_id

Unique Keys

- country_id
- country

Table: customer

Information about customers, such as name, contact details and active status.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	customer_id	integer	Customer ID
	store_id	smallint	Store ID
	first_name	character varying(45)	First name of customer
	last_name	character varying(45)	Last name of customer
	email	character varying(50)	Email address of customer
Foreign	address_id	smallint	Customer address ID
	activebool	boolean	Active status of custer: True/False
	create_date	date	Date added to database
	last_update	timestamp without time zone	Date of last update
	active	integer	Active status

Links To

Links To	Join	Description
address	customer.address_id = address.address_id	Foreign key constraint referencing address.address_id

Links From

Links From	Join	Description
payment	customer.customer_id = payment.customer_id	Foreign key constraint referencing payment.customer_id
rental	customer.customer_id = rental.customer_id	Foreign key constraint referencing rental.customer_id

Unique Keys

- customer_id
- email

Table: film

Information about each film, such as titles, descriptions, ratings, duration, etc.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	film_id	integer	Film ID
	title	character varying(255)	Title of film
	description	text	Description of film
	release_year	integer	Year of release
Foreign	language_id	smallint	Language ID
	rental_duration	smallint	Duration of rental
	rental_rate	numeric	Rate (cost) of rental
	length	smallint	Length of film
	replacement_cost	numeric	Replacement cost of rental
	rating	USER-DEFINED	Age rating of film
	last_update	timestamp without time zone	Date of last update
	special_features	ARRAY	Details of special features
	fulltext	tsvector	Film tags

Links To

Links To	Join	Description
language	film.language_id = language.language_id	Foreign key constraint referencing film.language_id

Links From

Links From	Join	Description
film_actor	film_actor.film_id = film.film_id	Foreign key constraint referencing film_actor.film_id
film_category	film_category.film_id = film.film_id	Foreign key constraint referencing film_category.film_id
inventory	inventory.film_id = film.film_id	Foreign key constraint referencing inventory.film_id

Unique Keys

- film_id

Table: film actor

Identifiers for actors and films.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary, Foreign	actor_id	smallint	Actor ID
Primary, Foreign	film_id	smallint	Film ID
	last_update	timestamp without time zone	Date of last update

Links To

Links To	Join	Description
actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id
film	film_actor.film_id = actor.ilm_id	Foreign key constraint referencing actor.ilm_id

Unique Keys

- actor_id

Table: film category

Identifiers for categories (genres) and films.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary, Foreign	film_id	smallint	Film ID
Primary, Foreign	category_id	smallint	Category ID
	last_update	timestamp without time zone	Date of last update

Links To

Links To	Join	Description
category	film_category.film_id = category.category_id	Foreign key constraint referencing category.category
film	film_category.film_id = film.film_id	Foreign key constraint referencing film.film_id

Unique Keys

- film_id
- category_id

Table: inventory

Information about the inventory of each store, identifying which films are in its inventory.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	inventory_id	integer	Inventory ID
Foreign	film_id	smallint	Film ID
	store_id	smallint	Store ID
	last_update	timestamp without time zone	Date of last update

Links To

Links To	Join	Description
film	inventory.film_id = film.film_id	Foreign key constraint referencing film.film_id

Links From

Links From	Join	Description
rental	inventory.inventory_id = rental.inventory_id	Foreign key constraint referencing rental.inventory_id

Unique Keys

- inventory_id

Table: language

Information about the language of each film.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	language_id	integer	Film language ID
	name	character(20)	Film language
	last_update	timestamp without time zone	Date of last update

Links From

Links From	Join	Description
film	film.language_id = language.language_id	Foreign key constraint referencing film.language_id

Unique Keys

- language_id
- name

Table: payment

Payment information about each rental, such as amounts and identification of customers, staff and store.
Table type: Fact.

Key	Column Name	Data Type	Description
Primary	payment_id	integer	Payment ID
Foreign	customer_id	smallint	Customer ID
Foreign	staff_id	smallint	Staff ID
Foreign	rental_id	integer	Rental ID
	amount	numeric	Price of rental
	payment_date	timestamp without time zone	Date of payment

Links To

Links To	Join	Description
customer	payment.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
rental	payment.rental_id = rental.rental_id	Foreign key constraint referencing rental.rental_id
staff	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id

Unique Keys

- payment_id

Table: rental

Information about each rental, such as date, return date, customer, staff and inventory ID.
Table type: Fact.

Key	Column Name	Data Type	Description
Primary	rental_id	integer	Rental ID
	rental_date	timestamp without time zone	Date of rental
Foreign	inventory_id	integer	Inventory ID
Foreign	customer_id	integer	Customer ID
	return_date	timestamp without time zone	Date returned
Foreign	staff_id	integer	Staff ID
	last_update	timestamp without time zone	Date of last update

Links To

Links To	Join	Description
customer	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
inventory	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory.inventory_id
staff	rental.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id

Links From

Links From	Join	Description
payment	rental.rental_id = payment.rental_id	Foreign key constraint referencing payment.rental_id

Unique Keys

- rental_id

Table: staff

Information about each staff member, such as name, contact details, login details, etc.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	staff_id	integer	Staff ID
	first_name	character varying(45)	Staff first name
	last_name	character varying(45)	Staff last name
Foreign	address_id	smallint	Staff address ID
	email	character varying(50)	Staff email address
	store_id	smallint	Store ID
	active	boolean	Active status of staff: True/False
	username	character varying(16)	Staff username
	password	character varying(40)	Staff password
	last_update	timestamp without time zone	Date of last update
	picture	bytea	Staff photo

Links To

Links To	Join	Description
address	staff.address_id = address.address_id	Foreign key constraint referencing address.address_id

Links From

Links From	Join	Description
payment	staff.staff_id = payment.staff_id	Foreign key constraint referencing payment.staff_id
rental	staff.staff_id = rental.staff_id	Foreign key constraint referencing rental.staff_id
store	staff.store_id = store.store_id	Foreign key constraint referencing staff.store_id

Unique Keys

- staff_id

Table: store

Information about each store, such as address and manager.
Table type: Dimension.

Key	Column Name	Data Type	Description
Primary	store_id	integer	Store ID
Foreign	manager_staff_id	smallint	Store Manager ID
Foreign	address_id	smallint	Store Address ID
	last_update	timestamp without time zone	Date of last update

Links To

Links To	Join	Description
address	store.address_id = address.address_id	Foreign key constraint referencing address.address_id
staff	store.address_id = staff.address_id	Foreign key constraint referencing staff.address_id

Unique Keys

- store_id
- manager_staff_id
- address_id