

Rockbuster Stealth Data Dictionary



Table of Contents

1. Entity Relationship Diagram

2. Fact Tables

- 2.1. film_actor
- 2.2. film_category
- 2.3. store
- 2.4. rental
- 2.5. payment

3. Dimension Tables

- 3.1. actor
- 3.2. address
- 3.3. category
- 3.4. city
- 3.5. country
- 3.6. customer
- 3.7. inventory
- 3.8. film
- 3.9. language
- 3.10. staff

1. Entity Relationship Diagram



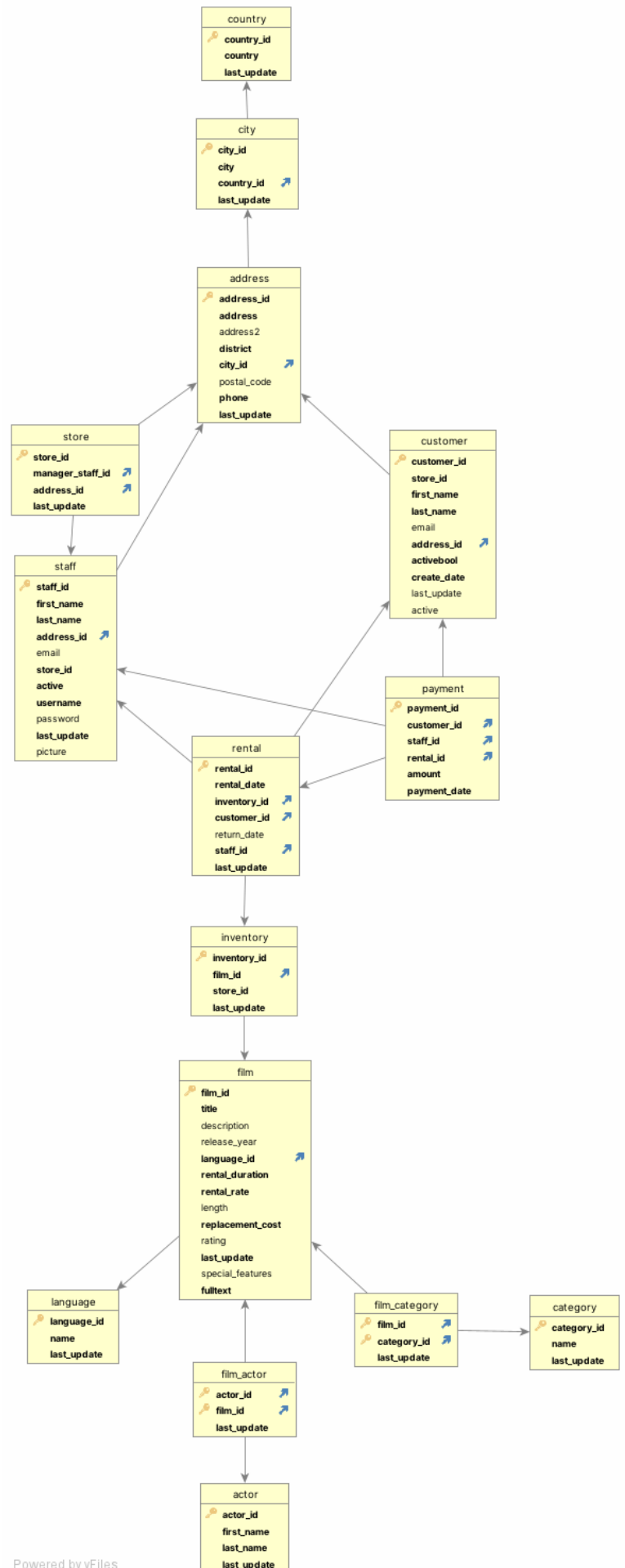
Indicates Primary Key



Indicates Foreign Key

Customer, store, and staff tables share common address tables.

All film and inventory information is linked to the rental table.



2. Fact Tables

2.1 film_actor

Columns	Data type	Description
actor_id	smallint	unique id for actor record, composite primary key, value from actor table, foreign key
film_id	smallint	unique id for film record, composite primary key, value from film table, foreign key
last_update	timestamp w/o zone	time when actor_id ws last updated, default value= now()

2.2 film_category

Columns	Data type	Description
film_id	smallint	unique id for film, value from film table, composite primary key, foreign key
category_id	smallint	unique id for category, composite primary key, value from category table, foreign key
last_update	timestamp w/o zone	time when film_id was last updated, default value= now()

2.3 store

Columns	Data type	Description
store_id	integer	unique id of store, primary key, serial, default value= nextval('store_store_id_seq'::regclass)
manager_staff_id	smallint	staff_id for manager of store_id, serial value from staff table designating store manager, foreign key
address_id	smallint	id of address for store_id, foreign key, from address table, serial value
last_update	timestamp w/o zone	time when store_id was last updated, default value= now()

2.4 rental

Columns	Data type	Description
rental_id	integer	unique id for rental, primary key, serial value, default=nextval('rental_rental_id_seq'::regclass)
rental_date	timestamp w/o zone	date and time of rental
inventory_id	integer	unique id of inventory for rental_id, foreign key, from rental table, serial value
customer_id	smallint	unique id for customer of rental_id, foreign key, value from customer table, serial value
return_date	timestamp w/o timezone	date and time of return
staff_id	smallint	id of staff for rental_id, foreign key, value from staff table, indicates staff who made sale or checkout?,
last_update	timestamp w/o zone	time when rental_id was last updated, default value= now()

2.5 payment

Columns	Data type	Description
payment_id	integer	unique id for a customer payment event, primary key, serial value, default=nextval('payment_payment_id_seq'::regclass)
customer_id	smallint	customer id for payment_id, foreign key to customer table, serial value
staff_id	smallint	indicates staff associated with payment_id, foreign key to staff table, serial value
rental_id	integer	id of rental for payment_id, foreign key to rental table, serial value
amount	numeric	amount of payment for payment_id, char length 5, scale 2, payment for rental
last_update	timestamp w/o zone	time when payment_id was last updated. default value= now()

3. Dimension Tables

3.1 actor

Columns	Data type	Description
actor_id	integer	unique id of actor record, primary key, serial, 10 char, is_autoincrement: yes, column_def = nextval('actor_actor_id_seq'::regclass)
first_name	varchar 45	first name of actor_id, text, proper case
last_name	varchar 45	last name of actor_id, text, proper case
last_update	timestamp 6 w/o zone	record of time when actor_id was last updated, column_def: now()

3.2 address

Columns	Data type	Description
address_id	integer	unique id for address record, primary key, serial, default value= nextval('address_address_id_seq'::regclass)
address	character varying	first line street number and street name for address_id, 50 char, proper case,
address2	character varying	second line address, 50 char, proper case
district	character varying	name of state or district for address_id, 20 char, proper case, ie: "Texas", "Mandalay", "QLD" etc
city_id	smallint	unique id for city, foreign key, from city table
postal_code	character varying	postal code for address_id, 10 char limit,
phone	character varying	phone number for address_id, 20 char, no spaces, standard format: country code-area code-number
last_update	timestamp w/o zone	record of time when address_id was last updated, column_def: now()

3.3 category

Columns	Data type	Description
category_id	integer	unique id assigned to movie category record, primary key, default value= nextval('category_category_id_seq'::regclass)
name	character varying	name of category_id, 25 char, genre type,
last_update	timestamp w/o zone	record of time when category_id was last updated, default value= now()

3.4 city

Columns	Data type	Description
city_id	integer	unique id for city record, primary key, default value= nextval('city_city_id_seq'::regclass)
city	character varying	city name of of city_id, 50 char, proper case, ie: "Addis Abeba", "Akron", "al-Ayn"
country_id	smallint	unique id for country associated with city_id, foreign key, value from country table
last_update	timestamp w/o zone	record of time when city_id was last updated, default value= now()

3.5 country

Columns	Data type	Description
country_id	integer	unique id for country record, primary key, default = nextval('country_country_id_seq'::regclass)
country	character varying	country name of country_id, 50 char, proper case,
last_update	timestamp w/o zone	record of time when country_id was last updated, default value= now()

3.6 customer

Columns	Data type	Description
customer_id	integer	unique id for customer record, primary key, default = nextval('customer_customer_id_seq'::regclass)
store_id	smallint	store id of customer_id, foreign key,value from store table
first_name	character varying	name of customer_id, 45 char, Proper case
last_name	character varying	last name of customer_id, 45 char, proper case
email	character varying	email of customer_id, 50 char, standard format ie: "mary.smith@sakilacustomer.org"
address_id	smallint	address id of customer_id, value from address table, foreign key
activebool	boolean	indicates if customer is active: active=true, not active= false for cutomer_id, default = true
create_date	date	date of creation for customer_id, creadefault= ('now'::text)::date
last_update	timestamp w/o zone	time when customer_id last updated, default value= now()
active	integer	indicates active customer, 1 = active

3.7 inventory

Columns	Data type	Description
inventory_id	integer	unique id for inventory, primary key, serial, default value= nextval('inventory_inventory_id_seq'::regclass)
film_id	smallint	unique id for film, value from film table, foreign key
store_id	smallint	unique id for store, value from store table, not listed as foreign key on this table
last_update	timestamp w/o zone	time when inventory_id last updated, default value= now()

3.8 film

Columns	Data type	Description
film_id	integer	unique id for film record, primary key, default= nextval('film_film_id_seq'::regclass)
title	character varying	title of film_id, 255 char, proper case
description	text	description of film_id, unstructured, entered with proper casing with exceptions ie: "A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China"
release_year	year	year film_id was released, integer, YYYY
language_id	smallint	unique id for language the film_id is in, value from language table, foreign key for language table,
rental_duration	smallint	duration film_id is to be rented in days, default= 3
rental_rate	numeric	cost for renting film_id, 4 chars, scale = 2, default= 4.99
length	smallint	length of film_id record in mins
replacement_cost	numeric	cost to replace film_id, 5 chars, scale= 2, default= 19.99
rating	mpaa_rating	MPAA rating for film_id, default= 'G'::mpaa_rating
last_update	timestamp w/o zone	time when film_id was last updated, default value= now()
special_features	text[]	list of special features on the film_id, ie: "{"Deleted Scenes","Behind the Scenes"}"
fulltext	tsvector	supports full text search of the description for film_id, ie: 'ace':1 'administr':9 'ancient':19 'astound':4 'car':17 'china':20 'databas':8 'epistl':5 'explor':12 'find':15 'goldfing':2 'must':14

3.9 language

Columns	Data type	Description
language_id	integer	unique id for language record, serial value designating language name, default= nextval('language_language_id_seq'::regclass)
name	character	name of language_id, char 20, ie: "English", "Italian"
last_update	timestamp w/o zone	time when language_id was last updated, default value= now()

3.10 staff

Columns	Data type	Description
staff_id	integer	unique id for staff, primary key, serial value, default = nextval('staff_staff_id_seq'::regclass)
first_name	character varying	first name of staff_id, length 45, Proper case
last_name	character varying	last name of staff_id, length 45, Proper case
address_id	smallint	id for address of staff_id, foreign key, value from address table
email	character varying	email of staff_id, length 50, ie: "Mike.Hillyer@sakilastaff.com"
store_id	smallint	id of store for staff_id serial value from store table,
active	boolean	shows employment status of staff_id, default = true
username	character varying	username of staff_id, length 16,
password	character varying	password of staff_id length 40,
last_update	timestamp w/o zone	time when staff_id was last updated, default value= now()
picture	bytea	picture of staff_id,