Data dictionary

RockBuster Stealth

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Entity Relationship Diagram
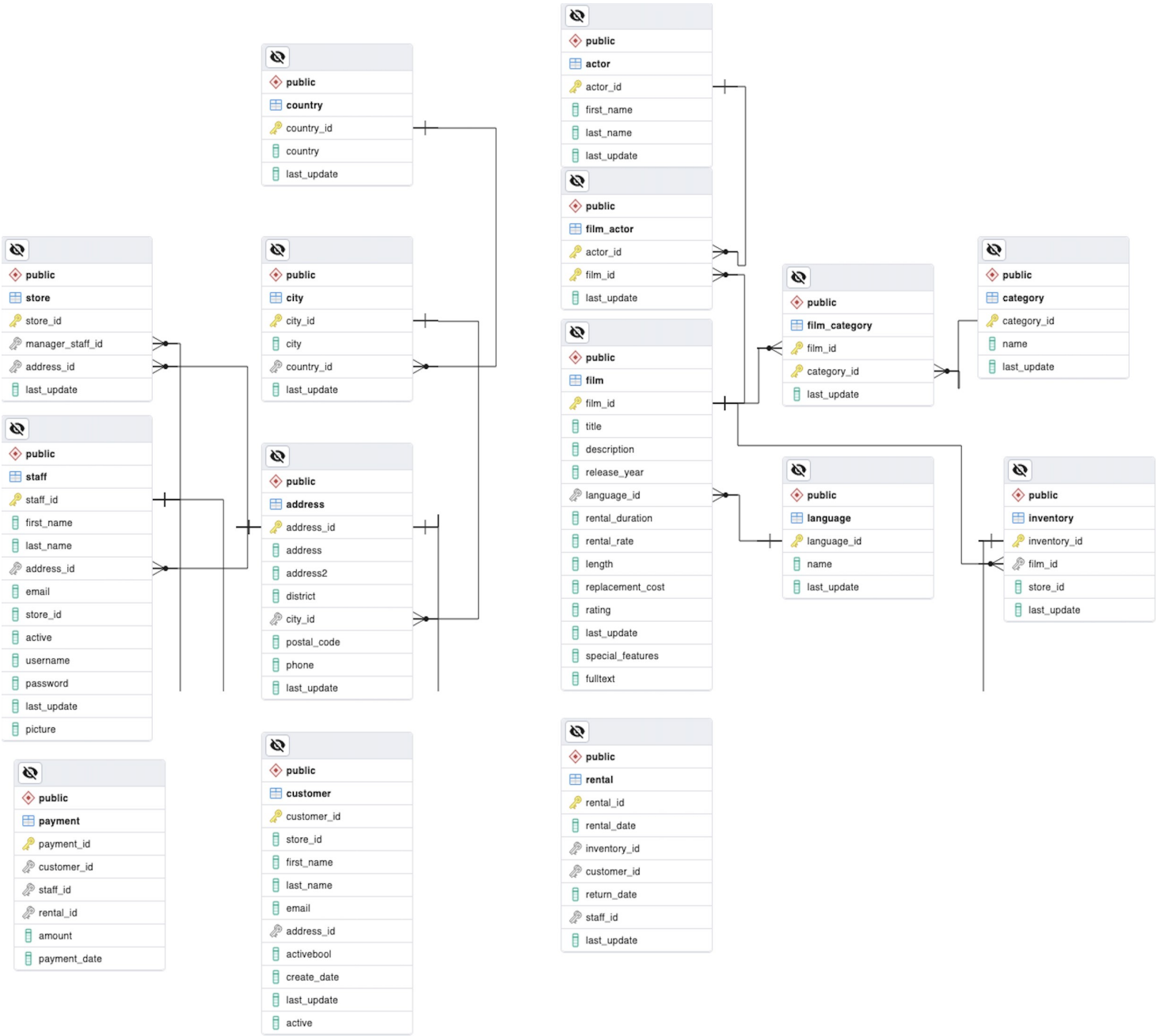
Fact tables

> **📋 Note**
>
> Fact tables represents the business transactions (Ex: rental event)
>
> They store quantitative data (numerical)
>
> They are keys to analyse & report the business

Legend

PK = Primary Key

FK = Foreign Key

Rental table *transactional data related to rental operations*

Column	Data Type	Description	Link to	Link from
rental_id	integer	PK - unique identifiers of rental operation	payment table	
rental_date	Timestamp	Date of rental		
inventory_id	integer	FK - ID of inventory	inventory table	
customer_id	smallint	FK - ID of customer		
return_date	Timestamp w/o Time Zone	Date movie was returned	customer table	
staff_id	smallint	FK - ID of staff	staff table	
last_update	Timestamp w/o Time Zone	Last update of table		

Payment table

collect all payment transactions, including staff_id and customer_id

Column	Type	Description	Link to	Link from
payment_id	serial	PK - ID of payment		
customer_id	smallint	FK - ID of customer	customer table	
staff_id	smallint	FK - ID of staff	staff table	
rental_id	integer	FK - ID of rental	rental table	
amount	numeric	cost of rental		
Payment_date	datetimestamp	date of payment		

Dimension tables

FIlm table *all informations of each movie store in the database*

Table	Column	Data type	Description	Links to	Links from
film	film_id	PK - integer	ID for film		film category table

Table	Column	Data type	Description	Links to	Links from
	title	character varying (255)	Title of film		
	description	text	Description of film		
	release_year	year	Year the film was released		
	language_id	FK - smallint	ID of language	language table	
	rental_duration	smallint	Duration of rental		
	rental_rate	numeric (4,2)	Rental cost		
	length	smallint	Length of film		
	replacement_cost	numeric(5,2)	Replacement cost if not returned		
	rating	maa_rating	Movie rating		
	last_update	Timestamp w/o Time Zone	Last update of table		
	special_features	text	Features of film		
	fulltext	tsvector	Film index		

Film actor *contains only actor & film IDs*

Table	Column	Data Type	Description	Links to	Links from
film_actor	actor_id	PK - smallint	ID for actor	actor table	
	film_id	PK - smallint	ID for film	film table	
	last_update	Timestamp w/o Time Zone	Last update of table		

Actor table *include actors & actresses names*

table	Column	Data type	Description	Links to	Links from
actor	actor_id	PK - integer	ID for actor		
	first_name	Character varying(45)	Actor first name		
	last_name	Character varying(45)	Actor last name		
	last_update	Timestamp w/o Time Zone	Last update of table		

Inventory table *inventory for film and stores*

table	column	data type	description	Links to	Links from
inventory	inventory_id	PK - integer	ID for inventory item		
	film_id	FK - smallint	ID for film		
	store_id	smallint	ID for store		
	last_update	Timestamp w/o Time Zone	Last update of table		

Language table
identification of the film language

Table	column	data type	description	links to	links from
language	language_id	PK - integer	ID of language	film table	
	name	character (20)	Name of language		
	last_update	Timestamp w/o Time Zone	Last update of table		

Category table
genre of the movies

table	column	data type	description	links to	links from
category	category_id	PK - integer	ID of category	film_category	
	name	character varying (25)	Name of category		
	last_update	Timestamp w/o Time Zone	Last update of table		

Film category table
ID of film & film category with last update

table	column	data type	description	links to	links from
film_category	film_id	PK - smallint	ID of film		film
	category_id	PK - smallint	Category of film		category table
	last_update	Timestamp w/o Time Zone	Last update of table		

Customer table *gather names & contact informations from customers*

table	column	data type	description	links to	links from
customer	customer_id	PK - integer	ID of customer	rental, payment table	
	store_id	smallint	ID of store		
	first_name	character varying (45)	Customer first name		
	last_name	character varying (45)	Customer last name		
	email	character varying (50)	Customer email address		
	address_id	FK - smallint	ID of address		adresse table
table	**column**	**data type**	**description**	**links to**	**links from**
	activebool	Boolean	Whether customer is active		
	create_date	date	Date customer first created		
	last_udate	Timestamp w/o Time Zone	Last update of table		
	active	integer	Active integer		

Staff table

names & contact informations from staff members

table	column	data type	description	links to	links from
staff	staff_id	PK - integer	ID of staff	payment, store, rental tables	
	first_name	character varying (45)	staff first name		
	last_name	character varying (45)	staff last name		
	address_id	FK - smallint	ID of address		adress table
	email	character varying (50)	Staff email address		
	store_id	smallint	ID of store		
	active	boolean	Whether staff is active		
	username	character varying (16)	Staff username		
	password	character varying (40)	Staff password		
	last_update	Timestamp w/o Time Zone	Last update of table		
	picture	bytea	Staff photo		

Store table *adresse of store &*
manager referent

table	column	data type	description	links to	links from
store	store_id	PK - integer	ID of store		
	manager_staff_id	FK - smallint	ID of manager		staff table
	address_id	FK - smallint	ID of address		adress table
	last_update	Timestamp w/o Time Zone	Last update of table		

Adress table *detailed adress +*
phone of customer

table	column	data type	description	links to	links from
address	address_id	PK - integer	ID of address	staff, customer tables	
	address	character varying (50)	Address line 1		
	address2	character varying (50)	Address line 2		
	district	character varying (20)	District		
	FK - city_id	smallint	ID of city		city table
	postal_code	character varying (10)	Postal code		
	phone	character varying (20)	Phone number		
	last_update	Timestamp w/o Time Zone	Last update of table		

City table
names of cities

table	column	data type	description	links to	links from
city	city_id	PK - integer	ID of city	adress table	
	city	character varying (50)	City name		
	country_id	FK - smallint	ID of country		country table
	last_update	Timestamp w/o Time Zone	Last update of table		

Country table
country's name

table	column	data type	description	links to	links from
country	country_id	PK - integer	ID of country	city table	
	country	character varying (50)	Country name		
	last_update	Timestamp w/o Time Zone	Last update of table		

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