

ROCKBUSTER STEALTH

DATA DICTIONARY

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Data Analysis Project

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ROCKBUSTER STEALTH

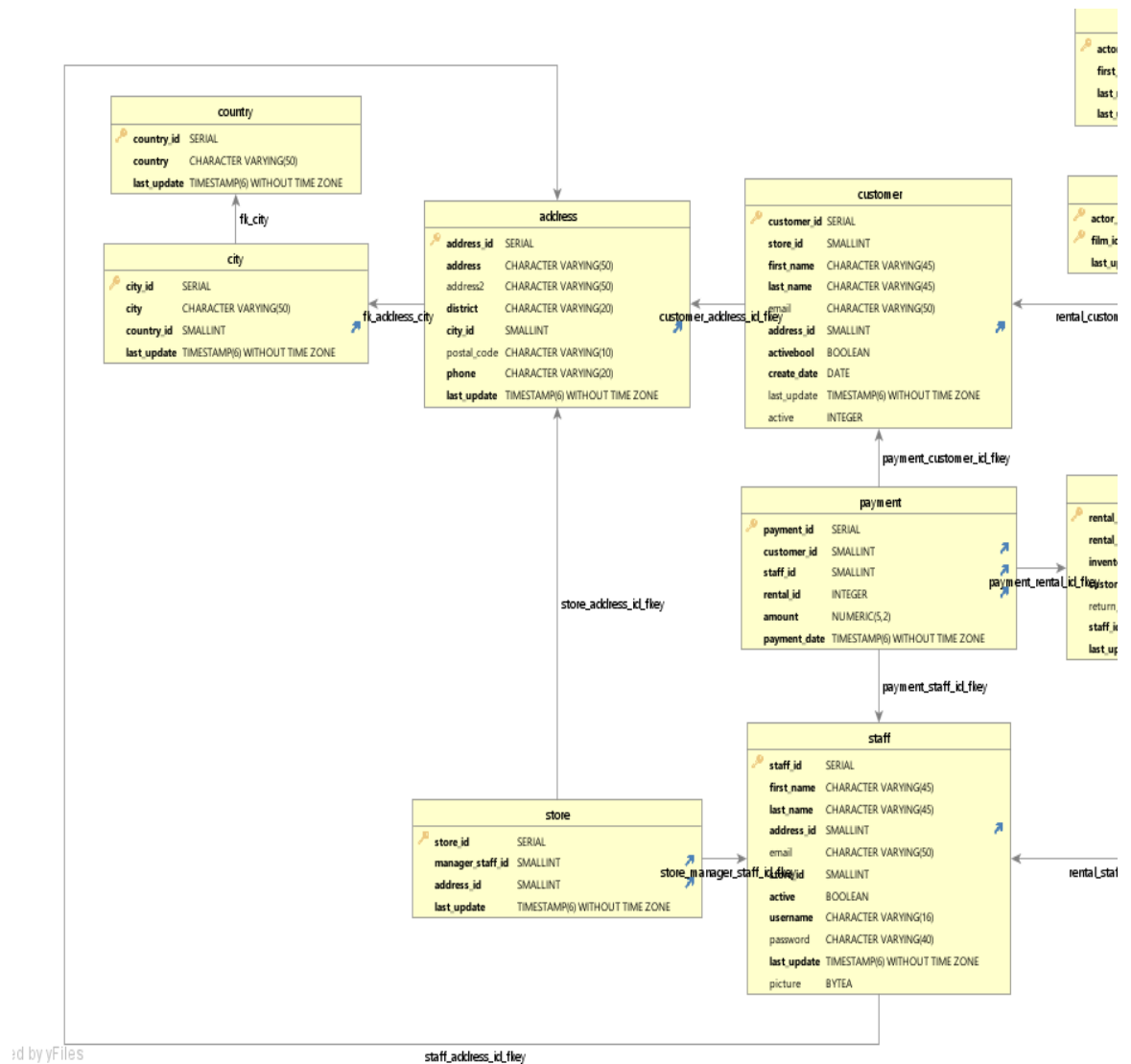
POSTGRESQL SERVER DATABASE

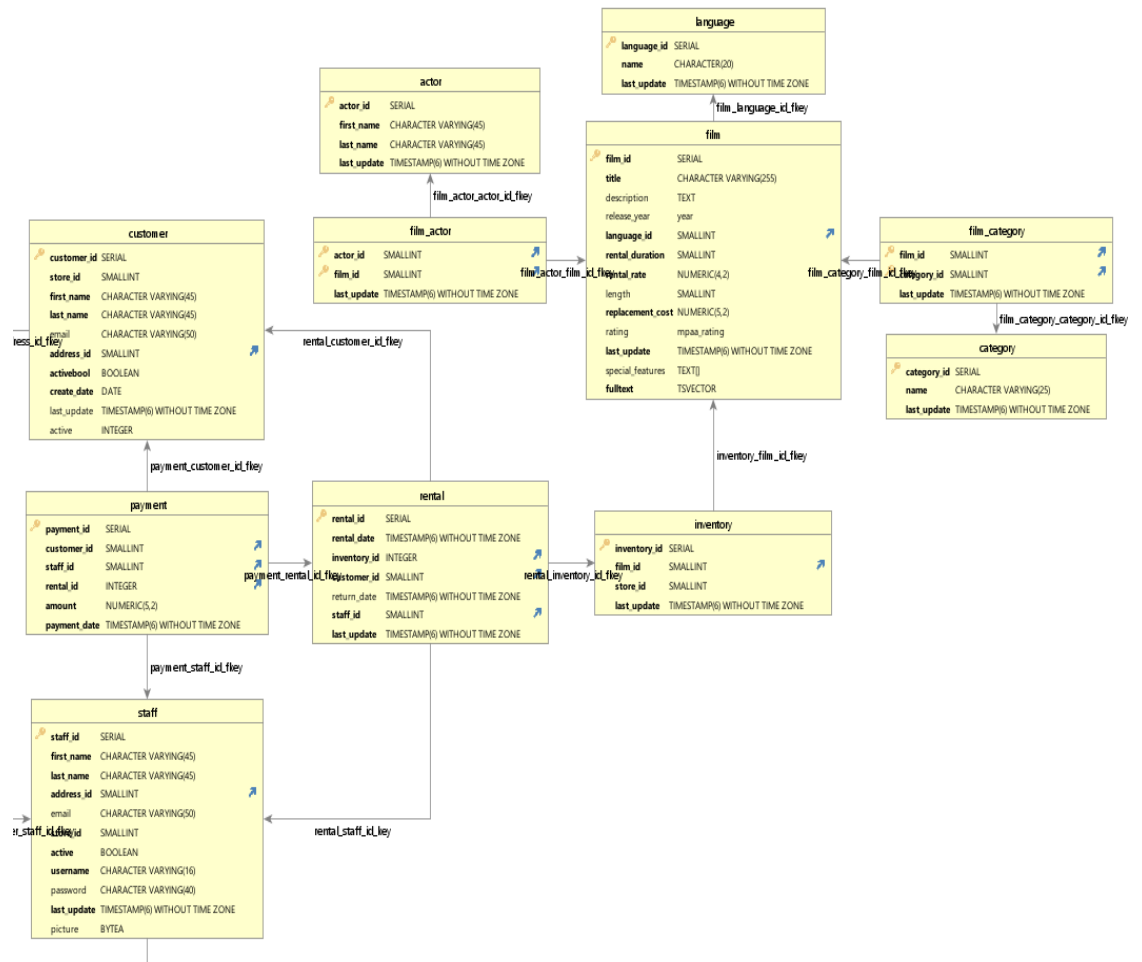
This is a data dictionary document containing the database's metadata for a relational database. The Rockbuster database supports OLAP and OLTP systems for their data needs for an online video rental company.

- *The names of all the tables and their relationships and owners of the tables*
- *Constraints for all the elements in this database, including primary key, foreign key and not-null constraints.*
- *A list of columns names and indexes for each table*
- *You can download the Rockbuster database here:
<https://drive.google.com/file/d/1hVzBWz5ORRbl37HA8p5tAiuZyMOe66yl/view>*

ENTITIES

ENTITY RELATIONSHIP DIAGRAM (ERD)





- *Entities that hold ID for payment, customer, staff, rental and inventory are payment and rental tables.*

TABLES

FACT AND DIMENSION TABLES

- Fact tables are the payment and the rental table.
- Dimension tables are actor, address, category, city, country, customer, film, film_2, film_actor, film_category, inventory, language, staff and store.

FACT TABLES

Table: Payment

Column name	Primary key	Foreign key	Links to	Data type	Type name	Description
payment_id	payment_pkey			4	serial	Key, payment id number
customer_id		payment_customer_id_fkey	customer	5	int2	customer id number
staff_id		payment_staff_id_fkey	staff	5	int2	staff id number
rental_id		payment_rental_id_fkey	rental	4	int4	rental id number
amount				2	numeric	amount paid - number
payment_date				93	timestamp	payment date and time

Index name: ix_fk_customer_id, idx_fk_rental_id, idx_fk_staff_id, payment_pkey.

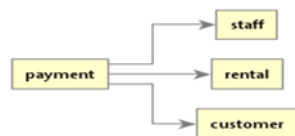
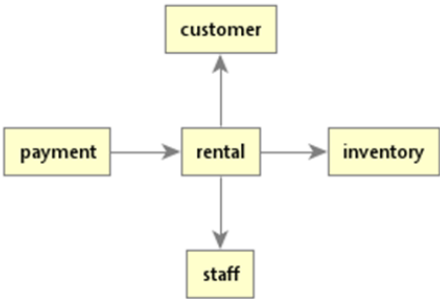


Table: Rental

Column name	Primary key	Foreign key	Links to	Links from	Data type	Type name	Description
rental_id	rental_pkey	payment_rental_id_fkey		payment	4	serial	Rental id number
customer_id		rental_customer_id_fkey	customer		5	int2	Customer id number
inventory_id		rental_inventory_id_fkey	inventory		4	int4	Inventory id number
last_update					93	timestamp	Last update date and time
rental_date					93	timestamp	Rental date and time
return_date					93	timestamp	Return date and time
staff_id		rental_staff_id_fkey	staff		5	int2	Staff id number

Index name: idx_fk_inventory_id,idx_unq_rental_rental_date_inventory_id_customer_id, idx_unq_rental_rental_date_inventory_id_customer_id, idx_unq_rental_rental_date_inventory_id_customer_id, rental_pkey.



DIMENSION TABLES

Table: actor

Column name	Primary key	Foreign key	Links to	Links from	Data type	Type name	Description
actor_id	actor_pkey	film_actor_actor_id_fkey	actor	film_actor	4	serial	actor id of the movie
first_name					12	varchar	first name of the actor
last_name					12	varchar	last name of the actor
last_update					93	timestamp	Last update date and time

Index name: actor_pkey, idx_actor_last_name.



Table: address

Column name	Primary key	Foreign key	Links to	Links from	Data type	Type name	Description
address_id	address_pkey	customer_address_id_fkey, staff_address_id_fkey, store_address_id_fkey		customer, staff, store	4	serial	address id number customer
address					12	varchar	address customer-text
address2					12	varchar	address 2 if there is
district					12	varchar	district of the customer
city_id		fk_address_city	city		5	int2	city id of the customer
postal_code					12	varchar	postal code of the customer
phone					12	varchar	phone number of the customer
last_updated					93	timestamp	Last update date and time

Index name: address_pkey, idx_fk_city_id.

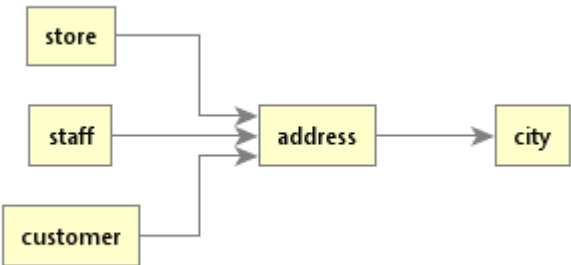


Table: category

Column name	Primary key	Foreign key	Links to	Links from	Data type	Type name	Description
category_id	category_pkey	film_category_category_id_fkey		film_category	4	serial	unique identifier of the movie for film category
name					12	varchar	name of the movie category
last_update					93	timestamp	Last update date and time

Index name: category_pkey.

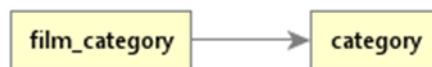


Table: city

Column name	Primary key	Foreign key	Links to	Links from	Data type	Type name	Description
city_id	city_pkey	fk_address_city		address	4	serial	city id of the customer
city					12	varchar	city of the customer – name
country_id		fk_city	country		5	int2	country id of the customer
last_update					93	timestamp	Last update date and time

Index name: city_pkey.

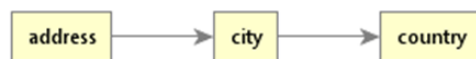


Table: country

Column name	Primary key	Foreign key	Links to	Links from	Data type	Type name	Description
country_id	country_pkey	fk_city		city	4	serial	number of the country of the customer
country					12	varchar	name of the country of the customer
last_update					93	timestamp	Last update date and time

Index name: country_pkey.



Table: customer

Column name	Primary key	Foreign key	Links to	Links from	Data type	Type name	Description
customer_id	customer_pkey	rental_customer_id_fkey, payment_customer_id_fkey		rental, payment	4	serial	customer id number
store_id					5	int2	store id number
first_name					12	varchar	first name of the customer
last_name					12	varchar	last name of the customer
email					12	varchar	email address
address_id		customer_addresses_id_fkey	address		5	int2	address id number
activebool					-7	bool	customer active or not
create_date					91	date	date when created customer profile
last_update					93	timestamp	Last update date and time
active					4	int4	active or not customer in number, 1 or 0

Index name: customer_pkey, idx_fk_address_id, idx_fk_store_id, idx_last_name.



Table: film

Index name: film_fulltext_idx, film_pkey, idx_fk_language_id, idx_title.

Table: film_actor

Index name: film_actor_pkey, film_actor_pkey, idx_fk_film_id.

Table: film_category

Index name: film_category_pkey, film_category_pkey.

Table: inventory

Index name: idx_store_id_film_id, idx_store_id_film_id, inventory_pkey.

Table: language

Primary key	Column name	Data type	Type name	Description	Exempel of description
language_pkey	language_id	4	serial	language id number	1
	name	1	bpchar	name of the language	english
	last_update	93	timestamp	Last update date and time	15.02.2006 10:02

Index name: language_pkey.

The table is linked to the table: film.

Table: staff

Primary key	Column name	Data type	Type name	Description	Exempel of description
staff_pkey	staff_id	4	serial	Staff id number	1
	first_name	12	varchar	First name of the employee	Mike
	last_name	12	varchar	Last name of the employee	Hillyer
	address_id	5	int2	Adress id number	3
	email	12	varchar	Employee email	Mike.Hillyer@sakilastaff.com
	store_id	5	int2	store id number	1
	active	-7	bool	active employee or not	TRUE
	username	12	varchar	username of the employee	Mike
	password	12	varchar	password of the employee	8cb2237d0679ca88db6464eac60da96345513964
	last_update	93	timestamp	last update date and time	16.05.2006 16:13
	picture	-2	bytea	picture of the employee	binary

Index name: staff_pkey.

The table is linked to the tables: store, address, payment, rental.

Table: store

Primary key	Column name	Data type	Type name	Description	Exempel of description
store_pkey	store_id	4	serial	Store id number	1
	manager_staff_id	5	int2	Manager_Staff id number	1
	address_id	5	int2	Address id number	1
	last_update	93	timestamp	Last update date and time	15.02.2006 9:57

Index name: idx_unq_manager_staff_id, store_pkey.

The table is linked to the tables: address, staff.