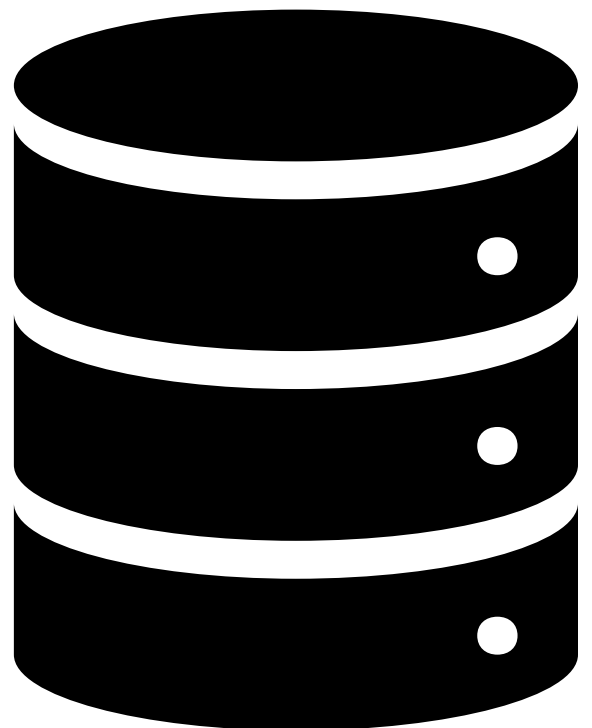


# Rockbuster Stealth

Data Dictionary

I-II-2022



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## Legend



Primary key



Foreign key



Primary key relation



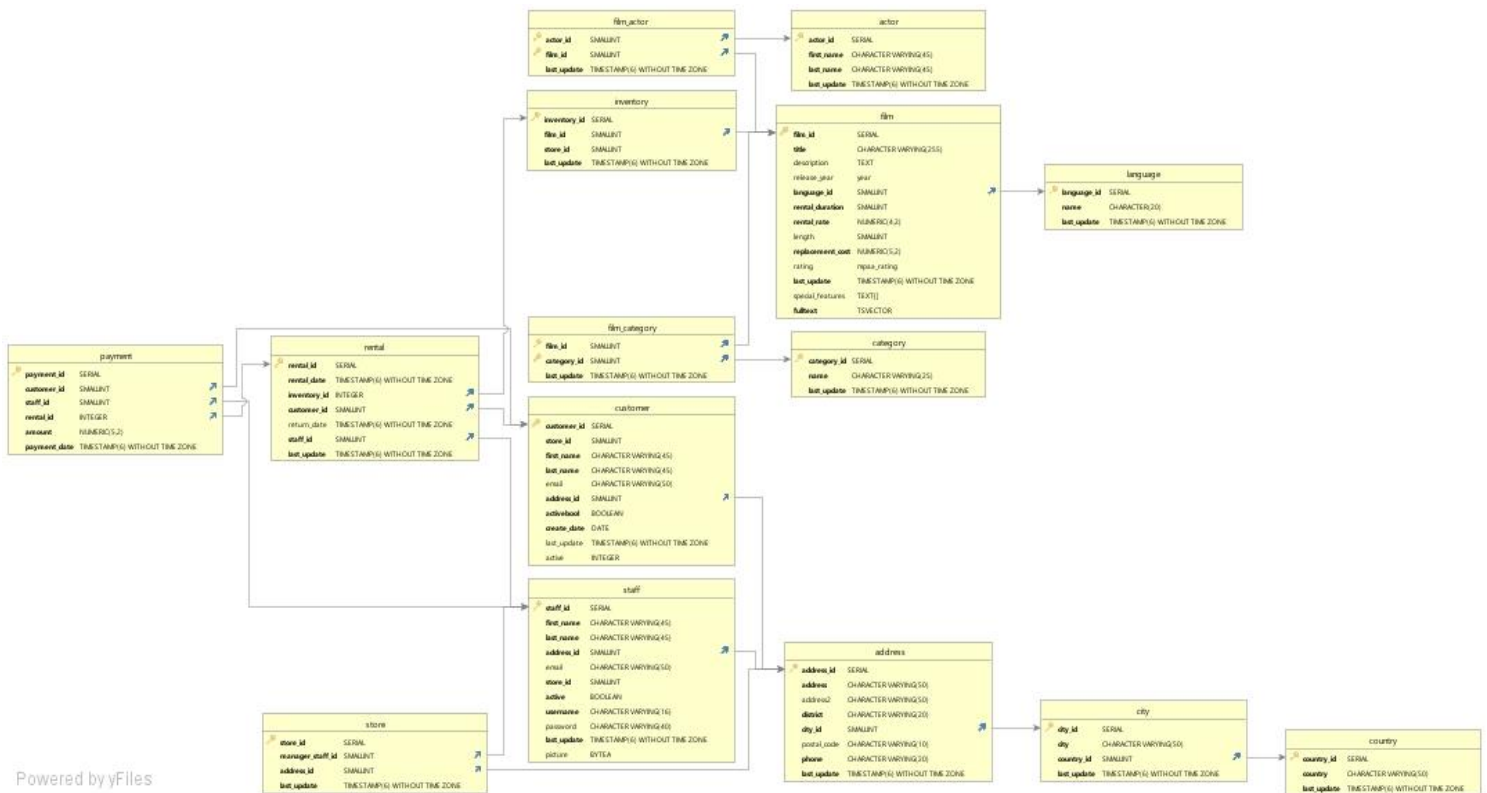
Foreign key relation

# I. Purpose

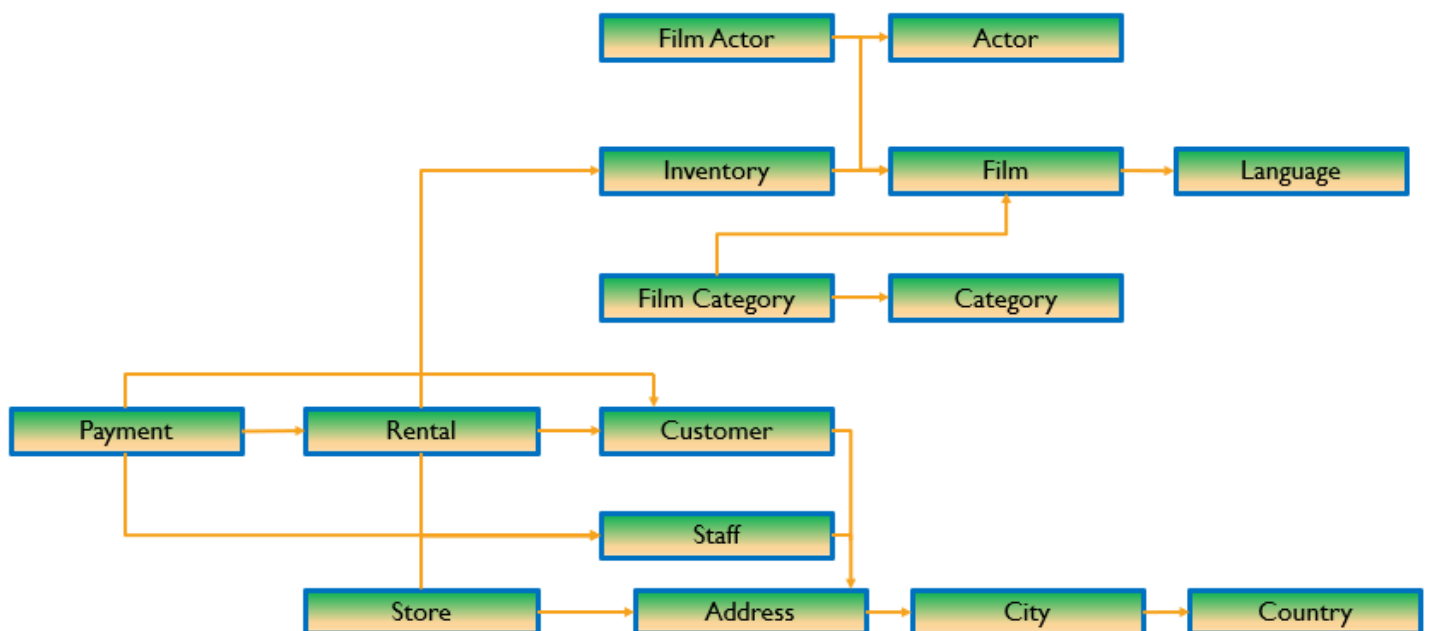
This Data Dictionary serves to describe the contents, format, and structure of the Rockbuster database. It shows the relationship between its elements which is used to control access and manipulate company information.

Currently there is only one database, but with expansion of the Data Department to include new databases, the Data Dictionary will expanded and updated accordingly.

## 2. Rockbuster ERD




### Simplified Version:




## 2.1 Table: Payment

Point-of-sale information (fact)




### Columns

	Name	Data Type	Description
	payment_id	serial	primary key for each payment
	customer_id	smallint	foreign key identifying the customer within a store
	staff_id	smallint	foreign key for employee involved in the transaction
	rental_id	serial	foreign key for each movie rental transaction
	amount	numeric	amount of the payment
	payment_date	date	time the payment was made





### Links to

	Table	Join
	None	

### Links from

	Table	Join
	customer	payment.customer_id = customer.customer_id
	staff	payment.staff_id = staff.staff_id
	rental	payment.rental_id = rental.rental_id


# Unique Keys

	Column	Name/Description
	payment_id	payment.payment_id Primary key
	customer_id	payment.customer_id Foreign key
	staff_id	payment.staff_id Foreign key
	rental_id	payment.rental_id Foreign key


## 2.2 Table: Rental

Film rental information (fact)




### Columns

	Name	Data Type	Description
	rental_id	serial	primary key for each movie rental transaction
	customer_id	smallint	foreign key identifying the customer within a store
	staff_id	smallint	foreign key for employee involved in the transaction
	return_date	date	date and time the movie was returned
	inventory_id	integer	foreign key identifying the film within a store
	last_update	date	time the transaction was last updated

### Links to





	Table	Join
	payment	rental.rental_id = payment.rental_id

### Links from

	Table	Join
	customer	rental.customer_id = customer.customer_id
	inventory	rental.inventory_id = inventory.inventory_id
	staff	rental.staff_id = staff.staff_id




# Unique Keys

	Column	Name/Description
	rental_id	rental.rental_id Primary key
	customer_id	rental.customer_id Foreign key
	inventory_id	rental.inventory_id Foreign key
	staff_id	rental.staff_id Foreign key



## 2.3 Table: Customer

Customer information (dimension)


### Columns

	Name	Data Type	Description
	customer_id	serial	primary key identifying the customer within a store
	store_id	smallint	foreign key for the store rental was made at
	first_name	character varying 45	first name of customer
	last_name	character varying 45	last name of customer
	email	character varying 45	the email address of the customer
	address_id	smallint	foreign key for customer's address
	activebool	Boolean	whether the customer's account is active
	create_date	Boolean	when the customer's account was created
	last_update	date	time the transaction was last updated
	active	integer	Unknown (ones and zeroes, relates to activebool)




### Links to

	Table	Join
	rental	rental.customer_id = customer.customer_id
	payment	payment.customer_id = customer.customer_id

### Links from

	Table	Join
	address	address.address_id = customer.address_id


# Unique Keys

	Column	Name/Description
	customer_id	customer.customer_id Primary key
	store_id	.customer.store_id Foreign key
	address_id	customer.address_id Foreign key


## 2.4 Table: Staff

Staff information (dimension)



### Columns

	Name	Data Type	Description
	staff_id	serial	primary key for employee involved in the transaction
	first_name	character varying 45	first name of employee
	last_name	character varying 45	last name of employee
	email	character varying 45	the email address of the employee
	address_id	smallint	foreign key for employee's address
	active	Boolean	whether the employee is actively working or not
	store_id	smallint	foreign key for the store employee works at
	username	character varying 16	employee's username
	password	character varying 40	employee's password
	picture	BYTEA	a picture of the employee
	last_update	date	time last updated




### Links to

	Table	Join
	payment	payment.staff_id = staff.staff_id

### Links from

	Table	Join
	address	address.address_id = staff.address_id
	store	store.store_id = staff.store_id


# Unique Keys

	Column	Name/Description
	staff_id	staff.staff_id Primary key
	store_id	staff.store_id Foreign key
	address_id	staff.address_id Foreign key

## 2.5 Table: Store

Store information (dimension)



### Columns

	Name	Data Type	Description
	store_id	serial	primary key for identifying each store
	manager_staff_id	smallint	foreign key for employee who is the manager of the store
	address_id	smallint	foreign key for employee's address
	last_update	date	time last updated




### Links to

	Table	Join
	none	

### Links from

	Table	Join
	address	address.address_id = store.address_id
	staff	staff.staff_id = store.manager_staff_id


### Unique Keys

	Column	Name/Description
	store_id	store.store_id Primary key
	manager_staff_id	store.manager_staff_id Foreign key
	address_id	staff.address_id Foreign key


## 2.6 Table: Address

Physical address information for stores, employees, and customers (dimension)




### Columns

	Name	Data Type	Description
	address_id	serial	primary key for identifying address
	address	character varying 50	address
	address2	character varying 50	address extra space
	district	character varying 20	district
	city_id	smallint	foreign key identifying city
	postal_code	character varying 10	postal code
	phone	character varying 20	phone number of address
	last_update	date	time last updated



### Links to

	Table	Join
	city	city.address_id = address.address_id

### Links from

	Table	Join
	customer	customer.address_id = address.address_id
	staff	staff.address_id = address.address_id
	store	store.address_id = address.address_id

# Unique Keys


	Column	Name/Description
	address_id	address.address_id Primary key
	city_id	address.city_id Foreign key




## 2.7 Table: City

City information for stores, employees, and customers (dimension)


### Columns

	Name	Data Type	Description
	city_id	serial	primary key for identifying city
	city	character varying 50	name of city
	country_id	smallint	foreign key identifying country
	last_update	date	time last updated



### Links to

	Table	Join
	country	country.city_id = city.city_id

### Links from

	Table	Join
	address	address.city_id = city.city_id


### Unique Keys

	Column	Name/Description
	city_id	city.city_id Primary key
	country_id	city.country_id Foreign key


## 2.8 Table: Country

Country information for stores, employees, and customers (dimension)

### Columns

	Name	Data Type	Description
	country_id	serial	primary key for identifying country
	country	character varying 50	name of country
	last_update	date	time last updated

### Links to

	Table	Join
	none	

### Links from

	Table	Join
	city	city.country_id = country.country_id


### Unique Keys

	Column	Name/Description
	country_id	country.country_id Primary key


## 2.9 Table: Inventory

Inventory information for films and rentals (dimension)


### Columns

	Name	Data Type	Description
	inventory_id	serial	primary key for identifying the inventory record
	film_id	smallint	foreign key for identifying film
	store_id	smallint	foreign key for identifying the store where the copy resides
	last_update	date	time last updated




### Links to

	Table	Join
	rental	rental.inventory_id = inventory.inventory_id

### Links from

	Table	Join
	film	film.film_id = inventory.film_id


### Unique Keys

	Column	Name/Description
	inventory_id	inventory.inventory_id Primary key
	film_id	inventory.film_id Foreign key
	store_id	inventory.store_id Foreign key




## 2.10 Table: Film

Film information (dimension)


### Columns

	Name	Data Type	Description
	film_id	serial	primary key for identifying film
	title	character varying 255	title of film
	description	text	a short description of film
	language_id	smallint	foreign key for identifying language
	release_year	year	year film was released
	rental_duration	smallint	how long the film can be rented for
	rental_rate	numeric	cost to rent the film
	length	smallint	the length of the film in minutes
	replacement_cost	numeric	how much the film costs to replace
	rating	mpaa_rating	the rating of the film
	last_update	date	time last updated
	special_features	text	summary of special features
	fulltext	TSVECTOR	Unknown, seems to be keywords



### Links to

	Table	Join
	inventory	inventory.film_id = film.film_id
	film_category	film_category.film_id = film.film_id
	film_actor	film_actor.film_id = film.film_id

## Links from

	Table	Join
	language	language.film_id = film.film_id


## Unique Keys

	Column	Name/Description
	film_id	film.film_id Primary key
	language_id	film.language_id Foreign key


## 2.11 Table: Language

Language information (dimension)


### Columns

	Name	Data Type	Description
	language_id	serial	primary key for identifying language
	name	character varying 25	name of language
	last_update	date	time last updated


### Links to

	Table	Join
	film	film.language_id = language.language_id

### Links from

	Table	Join
	None	

### Unique Keys

	Column	Name/Description
	language_id	language.language_id Primary key

## 2.12 Table: Film Category

Connects film and category tables (dimension)

### Columns

	Name	Data Type	Description
	film_id	smallint	foreign key for identifying film
	category_id	smallint	foreign key for identifying category
	last_update	date	time last updated

### Links to

	Table	Join
➡	none	

### Links from

	Table	Join
⬅	film	film.film_id = film_category.film_id
⬅	category	category.category_id = film_category.category_id


### Unique Keys

	Column	Name/Description
🔑	film_id	film_category.film_id Foreign key
🔑	category_id	film_category.category_id Foreign key


## 2.13 Table: Category

Category information for films (dimension)


### Columns

	Name	Data Type	Description
	category_id	serial	Primary key for identifying category
	name	character varying 25	name of category
	last_update	date	time last updated

### Links to

	Table	Join
	film_category	film_category.category_id = category.category_id

### Links from

	Table	Join
	None	

### Unique Keys

	Column	Name/Description
	category_id	category.category_id Primary key



## 2.14 Table: Film actor

Connects actor name to film (dimension)

### Columns

	Name	Data Type	Description
	actor_id	smallint	Foreign key for identifying actor
	film_id	smallint	Foreign key for identifying film
	last_update	date	time last updated



### Links to

	Table	Join
	none	

### Links from

	Table	Join
	actor	actor.actor_id = film_actor.actor_id
	film	film.film_id = film_actor.film_id


### Unique Keys

	Column	Name/Description
	actor_id	film_actor.actor_id Foreign key
	film_id	film_actor.film_id


## 2.15 Table: Actor

Actor information (dimension)


### Columns

	Name	Data Type	Description
	actor_id	serial	Primary key for identifying actor
	first_name	character varying 45	actor's first name
	last_name	character varying 45	actor's last name
	last_update	date	time last updated


### Links to

	Table	Join
	film_actor	film_actor.actor_id = actor.actor_id

### Links from

	Table	Join
	None	

### Unique Keys

	Column	Name/Description
	actor_id	actor.actor_id Primary key