

# Rocketbuster Stealth Data Dictionary

January 2023

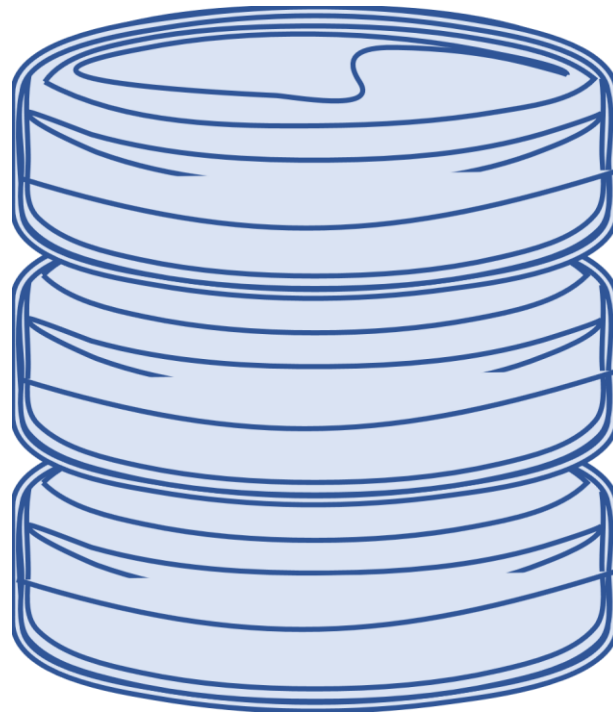


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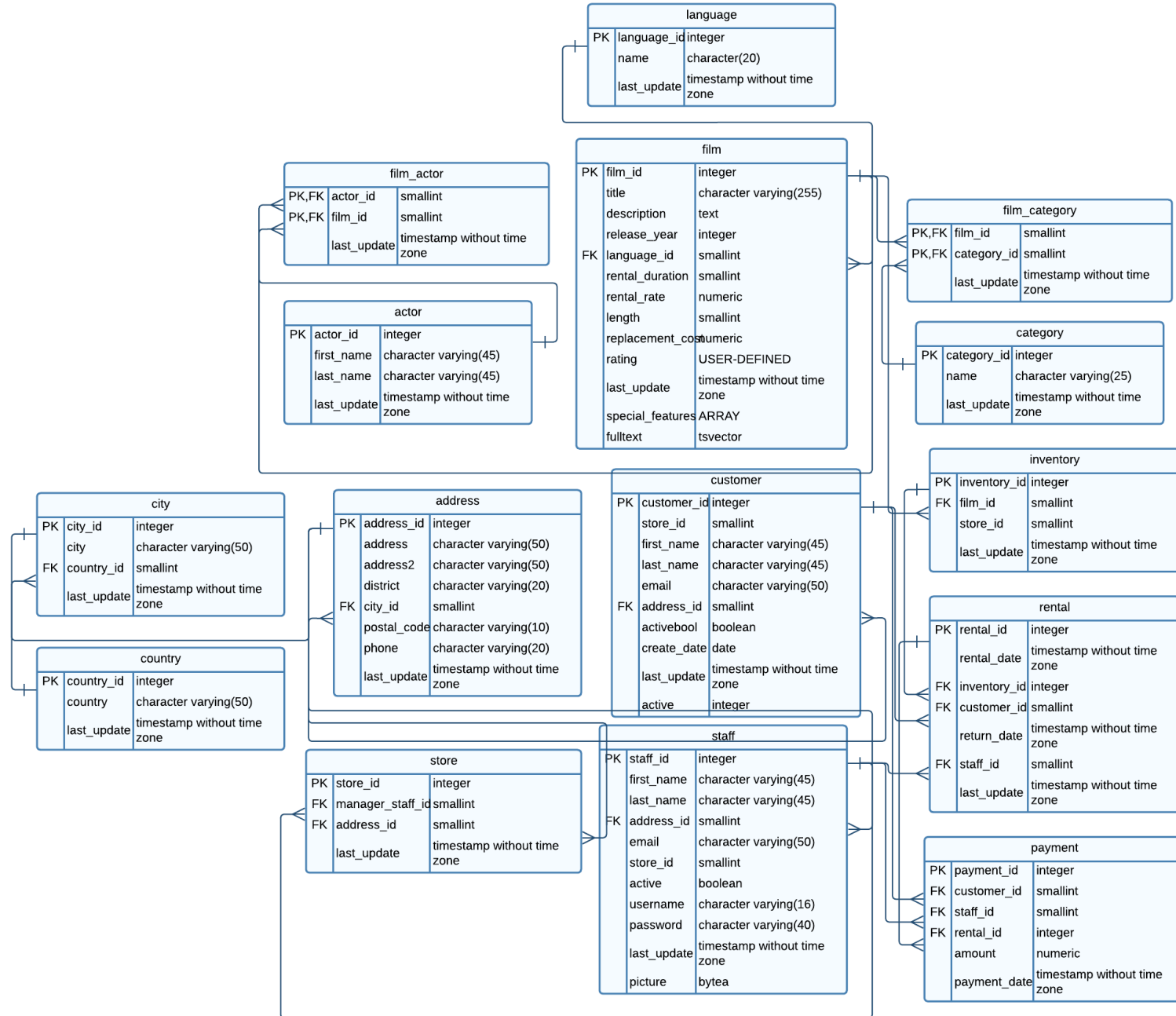
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## 1.1 Entity Relationship Diagram







## 2.1 Legend

-  Primary key
-  Foreign key

## 3.1 Tables

### 3.11 Table: Rental

Rental ID number, date, staff in charge of rental, and other information for each rental transaction.

	Name	Data Type	Nullable	Description
	rental_id	Integer		<b>Primary Key (Surrogate Key):</b> Rental id number
	rental_date	Timestamp without time zone		Date and time of each rental was initiated
	inventory_id	Integer		<b>Foreign key</b> to <i>inventory</i> table: Inventory id number
	customer_id	Small int (small integer)		<b>Foreign key</b> to <i>customer</i> table: Customer id number
	return_date	Timestamp without time zone	<i>N</i>	Date of rental return
	staff_id	Small int		<b>Foreign key</b> to <i>staff</i> table: Staff id number who performed return
	last_update	Timestamp without time zone		Date and time of last table update

Links to




Table	Join	Description
<b>inventory</b>	rental.inventory_id = inventory.inventory_id	Foreign key constraint in rental.inventory_id referencing primary key in inventory.inventory_id.
<b>customer</b>	rental.customer_id = customer.customer_id	Foreign key constraint in rental.customer_id referencing primary key in customer.customer_id.
<b>staff</b>	rental.staff_id = staff.staff_id	Foreign key constraint in rental.staff_id referencing primary key in staff.staff_id.

Links from

Table	Join	Description
<b>payment</b>	rental.rental_id = payment.rental_id	Foreign key constraint in payment.rental_id referencing primary key in rental.rental_id.

### 3.12 Table: Inventory

A record of each item in the inventory and its location.

	Name	Data Type	Nullable	Description
	<b>inventory_id</b>	Integer		<b>Primary Key (Surrogate Key):</b> Inventory id number
	<b>film_id</b>	Small int		<b>Foreign key to <i>film</i> table:</b> Film id number
	<b>store_id</b>	Small int		<b>Foreign key to <i>film</i> table:</b> Store id number
	last_update	Timestamp without time zone		Date and time of last table update

Links to

Table	Join	Description
<b>film</b>	inventory.film_id = film.film_id	Foreign key constraint in inventory.film_id referencing primary key in film.film_id.





<b>store</b>	inventory.store_id = store.store_id	Foreign key constraint in inventory.store_id referencing primary key in store.store_id.
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Links from

Table	Join	Description
<b>rental</b>	inventory.inventory_id = rental.inventory_id	Foreign key constraint in rental.inventory_id referencing primary key in inventory.inventory_id.

### 3.13 Table: Payment

A record of each customer payment and corresponding details.




	Name	Data Type	Nullable	Description
	<b>payment_id</b>	Integer		<b>Primary Key (Surrogate Key):</b> Payment ID number
	<b>customer_id</b>	Small int		<b>Foreign key</b> to <i>customer</i> table: Customer ID number
	<b>staff_id</b>	Small int		<b>Foreign key</b> to <i>staff</i> table: Staff ID number of staff member who handled rental and payment
	<b>rental_id</b>	Integer		<b>Foreign key</b> to <i>rental</i> table: Rental ID number
	amount	Numeric(5,2)		Amount of purchase in a currency
	payment_date	Timestamp without time zone		Date and time of payment

Links to

Table	Join	Description
<b>customer</b>	payment.customer_id = customer.customer_id	Foreign key constraint in payment.customer_id referencing primary key in customer.customer_id.
<b>staff</b>	payment.staff_id = staff.staff_id	Foreign key constraint in payment.staff_id referencing primary key in staff.staff_id.
<b>rental</b>	payment.rental_id = rental.rental_id	Foreign key constraint in payment.rental_id referencing primary key in rental.rental_id.

### 3.14 Table: Staff

A record of each staff member and corresponding details.

	Name	Data Type	Nullable	Description
	staff_id	Integer		<b>Primary Key (Surrogate Key):</b> Staff ID number
	first_name	Character varying(45)		Staff member first name
	last_name	Character varying(45)		Staff member last name
	address_id	Small int		<b>Foreign key</b> to <i>address</i> table: Address ID of store location
	email	Character varying(50)	N	Email of staff member
	store_id	Small int		<b>Foreign key</b> to <i>store</i> table: Store ID number where staff member is located
	active_boolean	Boolean		True or false in regard to if staff is currently active or employed by Rocketbuster
	username	Character varying(16)		Username staff member uses to access system
	password	Character varying(40)	N	Password staff member uses to access system
	last_update	Time stamp without time zone		Date and time of last table update
	picture	bytes	N	Staff member image or head shot

Links to



Table	Join	Description
address	staff.address_id = address.address_id	Foreign key constraint in staff.address_id referencing primary key in address.address_id.
store	staff.store_id = store.store_id	Foreign key constraint in staff.store_id referencing primary key in store.store_id.

Links from

Table	Join	Description
payment	staff.staff_id = payment.staff_id	Foreign key constraint in payment.staff_id referencing primary key in staff.staff_id.

### 3.15 Table: Film

A record of each film that Rocketbuster has offered in the past or present along with its details.

	Name	Data Type	Nullable	Description
	film_id	Small int		<b>Primary Key (Surrogate Key):</b> Film id number
	title	Small int		Title or movie
	description	Timestamp without time zone	N	Movie or film description
	release_year	integer	N	Year of release
	language_id	Character varying(255)		<b>Foreign Key</b> to <i>language</i> table. Language id of language movie is in
	rental_duration	text		Duration of rental in days
	rental_rate	Year		Rental rate in a currency
	length	Small int	N	Length of film in minutes
	replacement_cost	Small int		Cost to replace rental if lost or missing in a currency
	rating	Numeric(4,2)	N	Movie or film rating
	last_update	Small int		Date and time of last table update
	special_features	Numeric(5,2)	N	Special features of movie
	fulltext	Mpaa_rating		Text of movie

Links to

Table	Join	Description
language	film.language_id = language.language_id	Foreign key constraint in film.language_id referencing primary key in language.language_id.




Links from

Table	Join	Description
inventory	film.film_id = inventory.film_id	Foreign key constraint in inventory.film_id referencing primary key in film.film_id.
film_category	film.film_id = film_category.film_id	Foreign key constraint in film_category.film_id referencing primary key in film.film_id.
film_actor	film.film_id = film_actor.film_id	Foreign key constraint in film_actor.film_id referencing primary key in film.film_id.

### 3.16 Table: Language

A record of language identification numbers and their corresponding language name.



	Name	Data Type	Nullable	Description
	language_id	Integer		<b>Primary Key (Surrogate Key):</b> Language ID number
	name	Character varying(20)		Language name
	last_update	Time stamp without time zone		Date and time of last table update

Links from

Table	Join	Description
film	language.language_id = film.language_id	Foreign key constraint in film.language_id referencing primary key in language.language_id.

### 3.17 Table: Film Category

A record of film identification numbers of each movie and the corresponding category identification number representing the genre.

	Name	Data Type	Nullable	Description
	film_id	Small int		<b>Primary Key (Surrogate Key):</b> Film ID number
	category_id	Small int		<b>Foreign Key</b> to <i>category</i> table. Film category ID number

	last_update	Timestamp without time zone		Date and time of last table update
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Links to



Table	Join	Description
category	film_category.category_id = category.category_id	Foreign key constraint in film_category.category_id referencing primary key in category.category_id.
film	film_category.film_id = film.film_id	Foreign key constraint in film.film_id referencing primary key in film_category.film_id. Also acts as a primary key and foreign key in both film and film_category tables.

Links from

Table	Join	Description
inventory	film_category.film_id = inventory.film_id	Foreign key constraint in inventory.film_id referencing primary key in film.film_id.
film_actor	film_category.film_id = film_actor.film_id	Foreign key constraint in film_actor.film_id referencing primary key in film.film_id.
film	film_category.film_id = film.film_id.	Foreign key constraint in film.film_id referencing primary key film_category.film_id. Together with category_id, makes up primary key in film_category table.
category	film_category.category_id = category.category_id	Foreign key constraint in category.category_id referencing primary key film_category.category_id. Together with film_id, makes up primary key in film_category table.

### 3.18 Table: Film Actor

A record of actors along with corresponding film identification numbers, allowing user to make connections to films each actor starred in and to view the actors in a film.

	Name	Data Type	Nullable	Description
	actor_id	Small int		<b>Primary Key (Surrogate Key):</b> Actor ID number
	film_id	Small int		<b>Foreign Key</b> to <i>film</i> table. Film ID number
	last_update	Time stamp without time zone		Date and time of last table update

Links to


Table	Join	Description
<b>actor</b>	film_actor.actor_id = actor.actor_id	Foreign key constraint in film_actor.actor_id referencing primary key in actor.actor_id.
<b>film</b>	film_category.film_id = film.film_d	Foreign key constraint in film_actor.film_id referencing primary key in film.film_id. Also acts as a primary key and foreign key in both film_actor and film tables.

Links from

Table	Join	Description
<b>actor</b>	film_actor.actor_id = actor.actor_id	Foreign key constraint in actor.actor_id referencing primary key in film_actor.actor_id. Together with film_id, makes up primary key in film_actor table.
<b>film</b>	film_actor.film_id = film.film_id	Foreign key constraint in film.film_id referencing primary key in film.film_id. Together with actor_id, makes up primary key in film_actor table.

### 3.19 Table: Actor

A record of actor identification numbers and their corresponding names.


	Name	Data Type	Nullable	Description
	<b>Actor_id</b>	Integer		<b>Primary Key (Surrogate Key):</b> Actor ID number
	First_name	Character varying(45)		Actor first name
	Last_name	Character varying(45)		Actor last name
	Last_update	Time stamp without time zone		Date and time of last table update

Links from

Table	Join	Description
<b>film_actor</b>	actor.actor_id = film_actor.actor_id	Alone, actor_id acts as a foreign key constraint in film_actor.actor_id referencing primary key in actor.actor_id. Makes up part of primary key together with film_id in film_actor table.

### 3.20 Table: Category

A record of genres that help link films to actual genres to which they belong.




	Name	Data Type	Nullable	Description
	category_id	Integer		<b>Primary Key (Surrogate Key):</b> Rental category ID number
	name	Character varying(25)		Name of rental category
	last_update	Timestamp without time zone		Date and time of last table update

Links from

Table	Join	Description
film_category	category.category_id = film_category.category_id	Alone, category_id acts as a foreign key constraint in film_category.category_id referencing primary key in category.category_id. Makes up part of primary key together with film_id in film_category table.

### 3.21 Table: Customer

A record of details of each Rocketbuster customer, including name, location, and contact information.

	Name	Data Type	Nullable	Description
	customer_id	Integer		<b>Primary Key (Surrogate Key):</b> Customer id number
	store_id	Small int		<b>Foreign Key</b> to <i>store</i> table. Store id number
	first_name	Character varying(45)		Customer first name
	last_name	Character varying(45)		Customer last name
	email	Character varying(50)	N	Customer email address
	address_id	Small_int		<b>Foreign Key</b> to <i>address</i> table. Id number of customer address

	activebool	Boolean		True or false in regard to if customer is currently active in system
	create_date	Date		Date customer record was created
	last update	Timestamp without time zone	N	Date and time of last table update
	active	Integer	N	Related to activebool column with 1 if active customer, or if not active

#### Links to




Table	Join	Description
store	customer.store_id = store.store_id	Foreign key constraint in customer.store_id referencing primary key in store.store_id.
address	customer.address_id = address.address_id	Foreign key constraint in customer.address_id referencing primary key in address.address_id.

#### Links from

Table	Join	Description
rental	customer.customer_id = rental.customer_id	Foreign key constraint in rental.customer_id referencing primary key in customer.customer_id.
payment	customer.customer_id = payment.customer_id	Foreign key constraint in payment.customer_id referencing primary key in customer.customer_id.

### 3.22 Table: Store

A record of all Rocketbuster stores, the manager of each store, and its address.

	Name	Data Type	Nullable	Description
	store_id	Integer		<b>Primary Key (Surrogate Key):</b> Store id number
	manager_staff_id	Small int		Unique identification number of the store manager. It can be a <b>foreign key</b> to the staff table.
	address_id	Small int		<b>Foreign Key</b> to <i>address</i> table. ID number of location/address
	last_update	Timestamp without time zone		Date and time of last table update

Links to



Table	Join	Description
staff	store.manager_staff_id = staff.staff_id	Foreign key constraint in store.manager_staff_id referencing primary key in staff.staff_id.
address	store.address_id = address.address_id	Foreign key constraint in customer.address_id referencing primary key in address.address_id.

Links from

Table	Join	Description
inventory	store.store_id = inventory.store_id	Foreign key constraint in inventory.store_id referencing primary key in store.store_id.
staff	store.store_id = staff.store_id	Foreign key constraint in staff.store_id referencing primary key in store.store_id.

### 3.23 Table: Address

A record of addresses of staff, customers, and business locations. Connects to staff, customer, and store tables.

	Name	Data Type	Nullable	Description
	address_id	Integer		<b>Primary Key (Surrogate Key):</b> Address ID number (connected to several tables like staff or customers)
	address	Character varying(50)		Physical address associated with address id
	address2	Character varying(50)	N	Second physical address associated with address id
	district	Character varying(30)		Region or district associated with address, such as US state or country
	city_id	Small int		<b>Foreign Key</b> to <i>city</i> table. City id number
	postal_code	Character varying(10)	N	Zip code
	phone	Character varying(20)		Phone number of address
	last_update	Time stamp without time zone		Date and time of last table update

Links to



Table	Join	Description
city	address.city_id = city.city_id	Foreign key constraint in store.manager_staff_id referencing primary key in staff.staff_id.

Links from

Table	Join	Description
customer	address.address_id = customer.address_id	Foreign key constraint in customer.address_id referencing primary key in address.address_id.
staff	address.address_id = staff.address_id	Foreign key constraint in staff.address_id referencing primary key in address.address_id.
store	address.address_id = store.address_id	Foreign key constraint in store_address_id referencing primary key in address.address_id.

### 3.24 Table: City

A record of cities that are a part of the addresses of staff, customers, and business locations. Connects to the address table.

	Name	Data Type	Nullable	Description
	city_id	Integer		<b>Primary Key (Surrogate Key):</b> City ID number
	city	Character varying(50)		City name
	country_id	Small int		<b>Foreign Key</b> to <i>country</i> table. Country ID number where city is located
	last_update	Time stamp without time zone		Date and time of last table update

Links to


Table	Join	Description
country	city.country_id = country.country_id	Foreign key constraint in country.city_id referencing primary key in city.city_id.

Links from

Table	Join	Description
address	city.city_id = address.city_id	Foreign key constraint in address.city_id referencing primary key in city.city_id.

### 3.25 Table: Country

A record of countries that are a part of the addresses of staff, customers, and business locations. Connects to the city table.

	Name	Data Type	Nullable	Description
	country_id	Integer		<b>Primary Key (Surrogate Key):</b> Country ID number
	country	Character varying(50)		Country name
	last_update	Time stamp without time zone		Date and time of last table update

Links from

Table	Join	Description
city	country.city_id = city.country_id	Foreign key constraint in city.country_id referencing primary key in country.country_id.



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