

# ROCKBUSTER STEALTH

*Data Dictionary*

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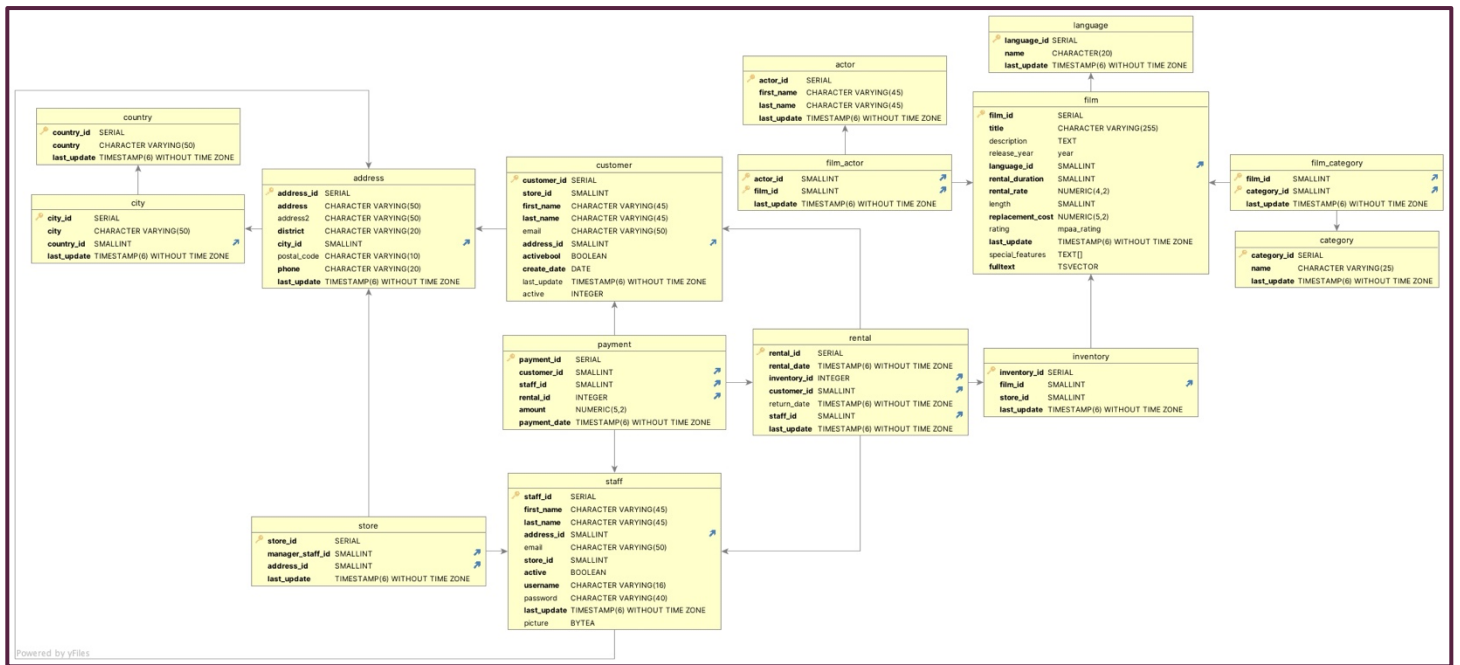
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## ENTITY RELATIONSHIP DIAGRAM (ERD)

Describes the structure of a database including the tables, columns in each table, the primary key of each table, and how the tables are connected by foreign keys. Illustrates the links between the tables in a relational database.







 = Primary Key

 = Foreign Key

## FACT TABLES

Contain measurements, metrics, and facts about a business process. Located at the center of a star/snowflake schema. Do not contain a hierarchy.




### Payment

Column	Data Type	Description
payment_id 	Serial	Unique payment identifier
customer_id 	Small int	Unique customer identifier
staff_id 	Small int	Unique staff identifier
rental_id 	Integer	Unique rental identifier
amount	Numeric (5, 2)	Amount of payment received
payment_date	Timestamp (6) w/out time zone	Date of payment

Links to

Table	Join
Rental	payment.rental_id = rental.rental_id
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id

### Rental

Column	Data Type	Description
rental_id 	Serial	Unique rental identifier
rental_date	Timestamp(6) without time zone	Date of rental
inventory_id 	Integer	Unique inventory identifier
customer_id 	Small int	Unique customer identifier
return_date	Timestamp(6) without time zone	Date of rental return
staff_id	Small int	Unique staff identifier
last_update	Timestamp(6) without time zone	Date of last update of record

Links to

Table	Join
Inventory	rental.inventory_id = inventory.inventory_id
Customer	rental.customer_id = customer.customer_id
Staff	rental.staff_id = staff.staff_id
Payment	payment.rental_id = rental.rental_id


 = Primary Key

 = Foreign Key

## DIMENSION TABLES

Contain descriptive attributes to be used as query constraining. Located at the edges of the star/snowflake schema. Contain detailed data and hierarchies.



### Actor

Column	Data Type	Description
actor_id 	Serial	Unique actor identifier
first_name	Character varying (45)	First name of actor
last_name	Character varying (45)	Last name of actor
last_update	Timestamp(6) without time zone	Time of last update of record

Links from

Table	Join
Film_actor	film_actor.actor_id = actor.actor_id

### Address

Column	Data Type	Description
address_id 	Serial	Unique address identifier
address	Character varying (50)	First line of address
address2	Character varying (50)	Second line of address
district	Character varying (50)	District of address
city_id 	Small int	Unique city identifier
postal_code	Character varying (10)	Postal code associated with address
phone	Character varying (20)	Phone number associated with address
last_update	Timestamp (6) without time zone	Time of last update of record


Links to

Table	Join
City	address.city_id = city.city_id

Links from

Table	Join
Store	store.address_id = address.address_id
Staff	staff.address_id = address.address_id
Customer	customer.address_id = address.address_id



## Category

Column	Data Type	Description
category_id 	Serial	Unique category identifier
name	Character varying (25)	Name of category
last_update	Timestamp (6) without time zone	Time of last update of record

Links from

Table	Join
Film_category	film_actor.category_id = category.category_id

## City

Column	Data Type	Description
city_id 	Serial	Unique city identifier
city	Character varying (50)	Name of city
country_id 	Small int	Unique country identifier
last_update	Timestamp (6) without time zone	Time of last update of record


Links to

Table	Join
Country	city.country_id = country.country_id

Links from

Table	Join
Address	address.city_id = city.city_id




## Country

Column	Data Type	Description
country_id 	Serial	Unique country identifier
country	Character varying (50)	Name of country
last_update	Timestamp (6) without time zone	Time of last update of record

Links from

Table	Join
City	city.country_id = country.country_id

## Customer

Column	Data Type	Description
customer_id 	Serial	Unique customer identifier
store_id 	Small int	Unique store identifier
first_name	Character varying (45)	First name of customer
last_name	Character varying (45)	Last name of customer
email	Character varying (50)	Customer email address
address_id 	Small int	Unique address identifier
activebool	Boolean	Whether customer is active or not
create_date	Date	Date of customer profile creation
last_update	Timestamp (6) without time zone	Time of last update of record
active	Integer	Active status represented by 0 or 1



Links to

Table	Join
Address	customer.address_id = address.address_id

Links from

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

## Film

Column	Data Type	Description
film_id 	Serial	Unique film identifier
title	Character varying (255)	Title of film
description	Text	Description of film
release_year	Year	Year of release of film
language_id 	Small int	Unique language identifier
rental_duration	Small int	How long film is rented for
rental_rate	Numeric (4,2)	Rate of rental
length	Small int	Length of film
replacement_cost	Numeric (2,5)	Cost to replace film
rating	Mpaa_rating	Film rating
last_update	Timestamp (6) without time zone	Time of last update of record
special_features	Text[]	Special features of film
fulltext	Tsvector	Film index



Links to

Table	Join
Language	film.language_id = language.language_id

Links from

Table	Join
Film_actor	film_actor.film_id = film.film_id
Film_category	film_category.film_id = film.film_id
Inventory	inventory.film_id = film.film_id



### Film\_actor

Column	Data Type	Description
actor_id 	Small int	Unique actor identifier
film_id 	Small int	Unique film identifier
last_update	Timestamp (6) without time zone	Time of last update of record

Links to

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




### Film\_category

Column	Data Type	Description
film_id 	Small int	Unique film identifier
category_id 	Small int	Unique film category identifier
last_update	Timestamp (6) without time zone	Time of last update of record

Links to

Table	Join
Category	film_category.category_id = category.category_id
Film	film_category.film_id = film.film_id

### Inventory


Column	Data Type	Description
inventory_id 	Serial	Unique inventory identifier
film_id 	Small int	Unique film identifier
store_id 	Small int	Unique store identifier
last_update	Timestamp (6) without time zone	Time of last update of record



Links to

Table	Join
Film	inventory.film_id = film.film_id




## Language

Column	Data Type	Description
language_id 	Serial	Unique language identifier
name	Character (20)	Name of language
last_update	Timestamp (6) without time zone	Time of last update of record

Links from

Table	Join
Film	film.language_id = language.language_id

## Staff

Column	Data Type	Description
staff_id 	Serial	Unique staff member identifier
first_name	Character varying (45)	First name of staff member
last_name	Character varying (45)	Last name of staff member
address_id 	Small int	Unique identifier of address
email	Character varying (50)	Staff member email address
store_id 	Small int	Unique store identifier
active	Boolean	Whether or not staff member is currently active
username	Character varying (16)	Staff member username
password	Character varying (40)	Staff member password
last_update	Timestamp (6) without time zone	Time of last update of record
picture	Bytea	Photo of staff member




Links to

Table	Join
Address	staff.address_id = address.address_id

Links from

Table	Join
Rental	rental.staff_id = staff.staff_id
Store	store.address_id = staff.address_id
Payment	payment.staff_id = staff.staff_id

## Store

Column	Data Type	Description
store_id 	Serial	Unique store identifier
manager_staff_id 	Small int	Unique store manager identifier
address_id 	Small int	Unique address identifier
last_update	Timestamp (6) without time zone	Time of last update of record

### Links to

Table	Join
Address	store.address_id = address.address_id
Staff	store.staff_id = staff.staff_id

### Links from

Table	Join
Customer	customer.store_id = store.store_id
Inventory	inventory.store_id = store.store_id
Staff	staff.store_id = store.staff_id