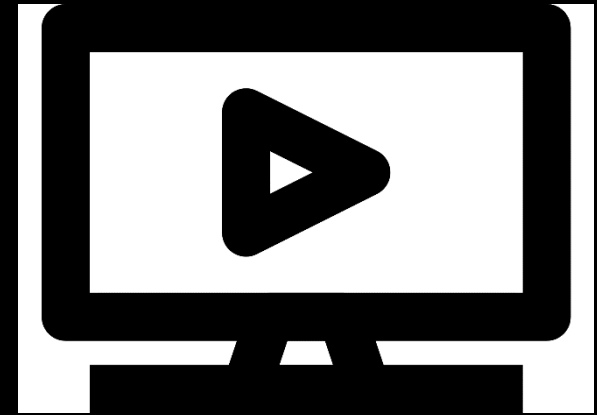


# Rockbuster Stealth LLC

Data Dictionary



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## Entity Relationship Diagram (ERD)

This ERD is a snowflake schema as we have a fact table, dimension tables and sub-dimension tables. The sub-dimension tables are for example city and country.



## Tables

⌘ = primary key

↗ = foreign key

### Fact tables

#### Rental

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
⌘	Rental_id	Serial	Unique number of a rental
	Rental_date	Timestamp(6)without timezone	Date of renting the movie
↗	Inventory_id	Integer	Unique number of an inventory
↗	Customer_id	Smallint	Unique number of a customer
	Return_date	Timestamp(6)without timezone	Date of returning the rented movie
↗	Staff_id	Smallint	Unique number of employee
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links to:

<u>Table</u>	<u>Join</u>
Inventory	Rental.inventory_id=inventory.inventory_id
Customer	Rental.customer_id=customer.customer_id
Staff	Rental.staff_id=staff.staff_id

Links from:

<u>Table</u>	<u>Join</u>
Payment	Payment.rental_id=rental.rental_id

### Payment

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
Ⓒ	Payment_id	Serial	Unique number of a payment
↗	Customer_id	Smallint	Unique number of a customer
↗	Staff_id	Smallint	Unique number of a staff member
↗	Rental_id	Integer	Unique number of a rental
	Amount	Numeric(5,2)	Price of the rental
	Payment_date	Timestamp(6)without timezone	Date of the payment

Links to:

<u>Table</u>	<u>Join</u>
Rental	Payment.rental_id=rental.rental_id
Customer	Payment.customer_id=customer.customer_id
Staff	Payment.staff_id=staff.staff_id

## Dimension tables

### Customer

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Customer_id	Serial	Unique number of a customer
	Store_id	Smallint	Unique number of a store
	First_name	Character Varying(45)	First name of the customer
	Last_name	Character Varying(45)	Last name of the customer
	Email	Character Varying(50)	Email from the customer
↗	Adress_id	Smallint	Adress of the customer
	Activebool	Boolyan	Active true or false
	Create_date	Date	Date of creation
	Last_update	Timestamp(6)without timezone	Date and time of the last update
	Active	Integer	If the customer account is active

Links to:

<u>Table</u>	<u>Join</u>
Address	Customer.address_id=address.address_id

Links from:

<u>Table</u>	<u>Join</u>
Rental	Rental.customer_id=customer.customer_id
Payment	Payment.customer_id=customer.customer_id

### Staff

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Staff_id	Serial	Unique number of a staff member
	Store_id	Smallint	Unique number of a store

	First_name	Character Varying(45)	First name of the staff member
	Last_name	Character Varying(45)	Last name of the staff member
	Email	Character Varying(50)	Email from the staff member
↗	Address_id	Smallint	Adress of the staff member
	Active	Boolyan	If the staff member account is active
	User_name	Character Varying(16)	Online username of the staff member
	Password	Character Varying(40)	Online password of the staff member
	Last_update	Timestamp(6)without timezone	Date and time of the last update
	Picture	Bytea	Photo of the staff member

Links to:

<u>Table</u>	<u>Join</u>
Address	Staff.address_id=address.address_id

Links from:

<u>Table</u>	<u>Join</u>
Rental	Rental.staff_id=staff.staff_id
Payment	Payment.staff_id=staff.staff_id

## Store

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Store_id	Serial	Unique number of a store
↗	Manager_staff_id	Smallint	Unique number of a staff manager
↗	Adress_id	Smallint	Adress of the store
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links to:

<u>Table</u>	<u>Join</u>
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Address	Staff.address_id=address.address_id
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### Address

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Adress_id	Serial	Unique number of an adress
	Adress	Character Varying(50)	Adress details
	Adress2	Character Varying(50)	Extra address details
	District	Character Varying(20)	Name of the district
↗	City_id	Smallint	Unique city number
	Postal_code	Character Varying(10)	Postal code details
	Phone	Character Varying(20)	Phone number
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links to:

<u>Table</u>	<u>Join</u>
City	Address.city_id=city.city_id

Links from:

<u>Table</u>	<u>Join</u>
Store	Store.address_id=address.address_id
Staff	Staff.address_id=address.address_id
Customer	Customer.address_id=address.address_id

### City

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	City_id	Serial	Unique city number
	City	Character Varying(50)	Name of the city



↗	Country_id	Smallint	Unique country number
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links to:

<u>Table</u>	<u>Join</u>
Country	City.country_id=country.country_id

Links from:

<u>Table</u>	<u>Join</u>
Address	Address.city_id=city.city_id

### Country

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Country_id	Serial	Unique country number
	Country	Character Varying(50)	Name of the country
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links from:

<u>Table</u>	<u>Join</u>
City	City.country_id=country.country_id

### Film\_Actor

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db ↗	Actor_id	Smallint	Unique number of an actor
db ↗	Film_id	Smallint	Unique number of a movie
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links to:

<u>Table</u>	<u>Join</u>
Actor	Film_actor.actor_id=actor.actor_id
Film	Film_actor.film_id=film.film_id

### Actor

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Actor_id	Serial	Unique number of the actor
	First_name	Character Varying(45)	First name of the actor
	Last_name	Character Varying(45)	Last name of the actor
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links from:

<u>Table</u>	<u>Join</u>
Film_Actor	Film_actor.actor_id=actor.actor_id

### Inventory

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Inventory_id	Serial	Unique number of an inventory
↗	Film_id	Smallint	Unique number of a movie
	Store_id	Smallint	Unique number of a store
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links to:

<u>Table</u>	<u>Join</u>
Film	Inventory.film_id=film.film_id

Links from:

<u>Table</u>	<u>Join</u>
Rental	Rental.inventory_id=inventory.inventory_id

## Film

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Film_id	Serial	Unique number of the movie
	Title	Character Varying(255)	Title of the movie
	Description	TEXT	Description of the movie
	Release_year	Year	Year that the movie came out
↗	Language_id	Smallint	Unique number of the language of the movie
	Rental_duration	Smallint	How long the movie has been rented
	Rental_rate	Numeric(4,2)	Score of renting by customers
	Length	Smallint	Duration of the movie
	Replacement_cost	Numeric(5,2)	Costs to replace the rental movie
	Rating	Mpaa_rating	Which age groups can watch the movie
	Last_update	Timestamp(6)without timezone	Date and time of the last update
	Special_features	Text[]	Special features of the movie
	Fulltext	TSVECTOR	Text of the movie

Links to:

<u>Table</u>	<u>Join</u>
Language	Film.language_id=language.language_id

Links from:

<u>Table</u>	<u>Join</u>
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

### Language

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Language_id	Serial	Unique number of the language of the movie
	Name	Character (20)	Name of the language
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links from:

<u>Table</u>	<u>Join</u>
Film	Film.language_id=language.language_id

### Film\_Category

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db ↗	Film_id	Smallint	Unique number of the movie
db ↗	Category_id	Smallint	Unique number of the category
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links to:

<u>Table</u>	<u>Join</u>
Film	Film_category.film_id=film.film_id
Category	Film_category.category_id=category.category_id

### Category

	<u>Column</u>	<u>Data Type</u>	<u>Description</u>
db	Category_id	Serial	Unique number of the category
	Name	Character Varying (25)	Name of the language
	Last_update	Timestamp(6)without timezone	Date and time of the last update

Links from:

<u>Table</u>	<u>Join</u>
Film_Category	Film_category.category_id=category.category_id