

A dark blue vertical bar runs down the left side of the page. A blue arrow points to the right from the bar, containing the date.

10/21/2023

Rockbuster Stealth LLC

Data Dictionary

Several thin, curved lines in shades of blue and grey sweep upwards from the bottom left corner of the page.

Kerry Tedford
ROCKBUSTER STEALTH

1. ROCKBUSTER STEALTH LLC	2
2. ENTITY RELATIONSHIP DIAGRAM	2
3. LEGEND	2
4. FACT TABLES	3
3.1 TABLE: RENTAL	3
3.2 TABLE: PAYMENT	3
5. DIMENSION TABLES	4
4.1 TABLE: INVENTORY	4
4.2 TABLE: FILM_CATEGORY	4
4.3 TABLE: FILM	5
4.4 TABLE: LANGUAGE	6
4.5 TABLE: CATEGORY	6
4.6 TABLE: ACTOR	6
4.7 TABLE: FILM_ACTOR	7
4.8 TABLE: CUSTOMER	7
4.9 TABLE: ADDRESS	8
4.10 TABLE: CITY	8
4.11 TABLE: COUNTRY	9
4.12 TABLE: STAFF	9
4.13 TABLE: STORE	10

1. Rockbuster Stealth LLC

The Rockbuster Stealth data set consists of 2 fact tables and 13 dimension tables that contain information on our stores, inventory, staff, customers, payments, and films.

2. Entity Relationship Diagram

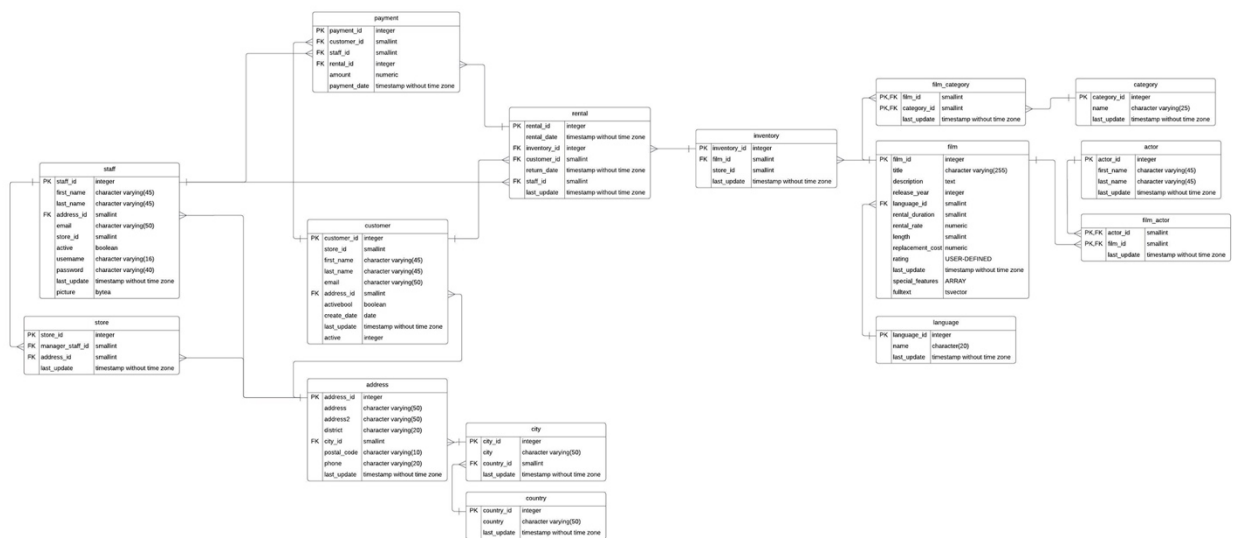


Figure 1. Entity Relationship Diagram (ERD) for the Rockbuster database exported from Lucid.app.

3. Legend

PK = primary key

FK = foreign key

4. Fact Tables

3.1 Table: rental

	Columns	Data Type	Description
PK	rental_id	integer	unique ID assigned to rental transaction
	rental_date	timestamp without time zone	date of movie rental
FK	inventory_id	integer	unique ID assigned to the individual disk of the movie (multiple copies of the same movie are possible)
FK	customer_id	smallint	unique ID assigned to the customer
	return_date	timestamp without time zone	date of movie return
FK	staff_id	smallint	unique ID assigned to a staff member
	last_update	timestamp without time zone	date of last change to this table
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	
LINKS FROM:			
Table		Join	
payment		payment.rental_id = rental.rental_id	

3.2 Table: payment

	Columns	Data Type	Description
PK	payment_id	integer	unique ID assigned to each payment transaction
FK	customer_id	smallint	unique ID assigned to the customer
FK	staff_id	smallint	unique ID assigned to a staff member
FK	rental_id	smallint	unique ID assigned to rental transaction
	amount	integer	cost of rental (dollars.cents)
	payment_date	timestamp without time zone	date of payment for rental
LINKS TO:			
Table		Join	
customer		payment.customer_id = customer.customer_id	

staff	payment.staff_id = staff.staff_id
rental	payment.rental_id = rental.rental_id
LINKS FROM:	
Table	Join
none	

5. Dimension Tables

4.1 Table: inventory

	Columns	Data Type	Description
PK	inventory_id	integer	unique ID assigned to the individual disk of the movie (multiple copies of the same movie are possible)
FK	film_id	smallint	unique ID assigned to the movie
	store_id	smallint	unique ID assigned to the store
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
film		inventory.film_id = film.film_id	
LINKS FROM:			
Table		Join	
rental		rental.inventory_id=inventory.inventory_id	

4.2 Table: film_category

	Columns	Data Type	Description
PK FK	film_id	smallint	unique ID assigned to the movie
PK FK	category_id	smallint	unique ID assigned to the category (genre)
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
film		film_category.film_id = film.film_id	
category		film_category.category_id = category.category_id	
LINKS FROM:			
Table		Join	
none			

4.3 Table: film

	Columns	Data Type	Description
PK	film_id	integer	unique ID assigned to the movie
	title	character varying (255)	title of the movie
	description	text	short description of the movie
	release_year	integer	year of movie release
FK	language_id	smallint	unique ID assigned to the language of the movie
	rental_duration	smallint	length of time between movie rental_date and return_date (days)
	rental_rate	numeric	cost per day for movie rental
	length	smallint	length of movie (minutes)
	replacement_cost	numeric	purchase cost of movie (dollars.cents)
	rating	USER-DEFINED	mpaa rating (categories include NC-17, R, PG-13, PG, G)
	last_update	timestamp without time zone	date of last change to this table
	special_features	ARRAY	special features included on disk (categories include Trailers, Deleted Scenes, Behind the Scenes, Commentaries)
	fulltext	tsvector	
LINKS TO:			
Table		Join	
language		film.language_id = language.language_id	
LINKS FROM:			
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	

4.4 Table: language

	Columns	Data Type	Description
PK	language_id	integer	unique ID assigned to a language
	name	character (20)	name of the language in English
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
none			
LINKS FROM:			
Table		Join	
film		film.language_id = language.language_id	

4.5 Table: category

	Columns	Data Type	Description
PK	category_id	integer	unique ID assigned to the category (genre)
	name	character varying (25)	name of the category
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
none			
LINKS FROM:			
Table		Join	
film_category		category.category_id = film_category.category_id	

4.6 Table: actor

	Columns	Data Type	Description
PK	actor_id	integer	unique ID assigned to each actor
	first_name	character varying (45)	first name of actor
	last_name	character varying (45)	last name of actor
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
none			
LINKS FROM:			
Table		Join	
film_actor		film_actor.actor_id = actor.actor_id	

4.7 Table: film_actor

	Columns	Data Type	Description
PK FK	actor_id	smallint	unique ID assigned to each actor
PK FK	film_id	smallint	unique ID assigned to the movie
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
film		film_actor.film_id = film.film_id	
actor		film_actor.actor_id = actor.actor_id	
LINKS FROM:			
Table		Join	
none			

4.8 Table: customer

	Columns	Data Type	Description
PK	customer_id	integer	
	store_id	smallint	unique ID assigned to the store
	first_name	character varying (45)	first name of customer
	last_name	character varying (45)	last name of customer
	email	character varying (50)	email of customer
FK	address_id	smallint	address of customer
	active_bool	Boolean	answers whether the ID has been used in the last year
	create_date	date	date that the cutomer_id was created
	last_update	timestamp without time zone	date of last change to this table
	active	integer	activation status assigned to the customer (1 or 0)
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	

4.9 Table: address

	Columns	Data Type	Description
PK	address_id	integer	unique ID assigned to an address
	address	character varying (50)	customer address house number and street
	address2	character varying (50)	customer address additional info
	district	character varying (20)	customer address city/district
FK	city_id	smallint	unique ID assigned to city
	postal_code	character varying (10)	customer address postal code
	phone	character varying (20)	customer phone number
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
city		address.city_id = city.city_id	
LINKS FROM:			
Table		Join	
customer		customer.address_id = address.address_id	
store		store.address_id = address.address_id	
staff		staff.address_id = address.address_id	

4.10 Table: city

	Columns	Data Type	Description
PK	city_id	integer	unique ID assigned to city
	city	character varying (50)	city referenced by the city_id
FK	country_id	smallint	unique ID assigned to the country where the city is located
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
country		city.country_id = country.country_id	
LINKS FROM:			
Table		Join	
address		address.city_id = city.city_id	

4.11 Table: country

	Columns	Data Type	Description
PK	country_id	integer	unique ID assigned to the country where the city is located
	country	character varying (50)	country referenced by the country_id
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
none			
LINKS FROM:			
Table		Join	
city		city.country_id = country.country_id	

4.12 Table: staff

	Columns	Data Type	Description
PK	staff_id	integer	unique ID assigned to a staff member
	first_name	character varying (45)	staff member first name
	last_name	character varying (45)	staff member last name
FK	address_id	smallint	unique ID assigned to an address
	email	character varying (50)	staff member
	store_id	smallint	unique ID assigned to the store
	active	Boolean	answers whether the ID has been used in the last year
	username	character varying (16)	staff member login username
	password	character varying (40)	staff member login password
	last_update	timestamp without time zone	date of last change to this table
	picture	bytea	staff member photo
LINKS TO:			
Table		Join	
address		staff.address_id = address.address_id	
LINKS FROM:			
Table		Join	
store		store.manager_staff_id = staff.staff_id	
payment		payment.staff_id = staff.staff_id	

4.13 Table: store

	Columns	Data Type	Description
PK	store_id	integer	unique ID assigned to the store
FK	manager_staff_id	smallint	unique ID assigned to the manager of the store
FK	address_id	smallint	unique ID assigned to the store address
	last_update	timestamp without time zone	date of last change to this table
LINKS TO:			
Table		Join	
staff		store.manager_staff_id = staff_id	
address		store.address_id = address.address_id	
LINKS FROM:			
Table		Join	
none			