

Rockbuster Stealth Data Analysis Project

Data Dictionary

Table of Contents

1. Rockbuster Stealth LLC	3
2. Legend	3
3. Entity Relationship Diagram	4
4. Tables	5
4.1 Fact Tables	5
4.1.1 rental.....	5
4.1.2 payment	5
4.2 Dimension Tables	6
4.2.1 store	6
4.2.2 film_actor.....	6
4.2.3 inventory	7
4.2.4 film_category.....	8
4.2.5 customer	8
4.2.6 staff.....	9
4.2.7 actor.....	10
4.2.8 film	10
4.2.9 category	11
4.2.10 address	11
4.2.11 language.....	12
4.2.12 city	12
4.2.13 country	13
4.2.14 employees.....	13

1. Rockbuster Stealth LLC

The Rockbuster data set has 2 fact tables and 14-dimension tables.

It contains information about the company's inventory, rentals, customers, payments, and employees.

2. Legend

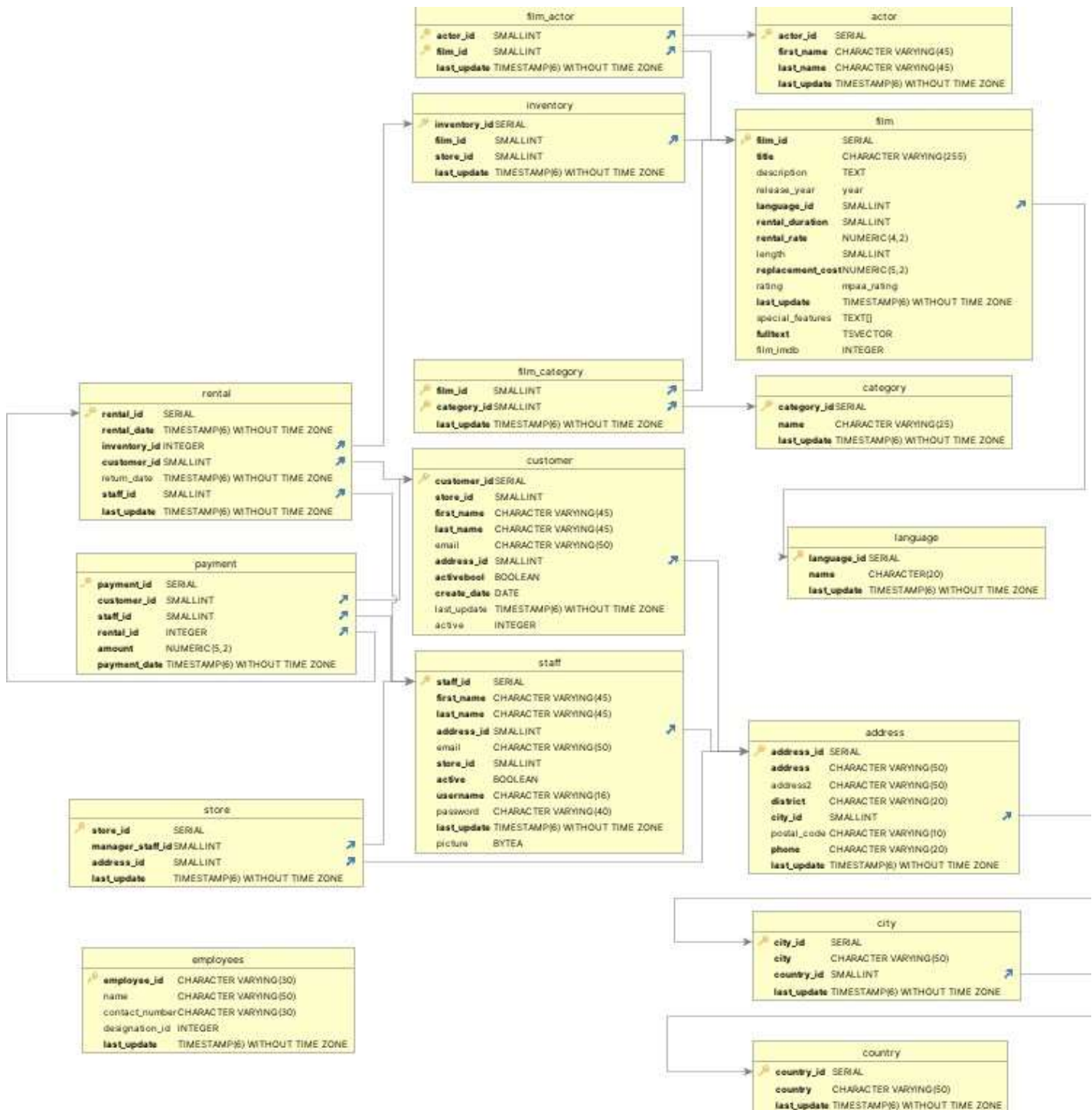


Primary Key



Foreign Key





3. Entity Relationship Diagram





4. Tables

4.1 Fact Tables

4.1.1 Table Name: rental

COLUMNS			
	Name	Data Type	Description
	rental_id	SERIAL	Unique ID number for each rental instance
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for exact date and time of rental
	inventory_id	INTEGER	Unique number identifying each rental unit in inventory
	customer_id	SMALLINT	Unique number identifying each customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for exact date and time of rental return
	staff_id	SMALLINT	Unique number identifying each staff member
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Timestamp for the exact date and time this table was last updated
LINKS TO			
Table Name		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 Name		Join	
payment		rental.rental_id = payment.rental_id	

4.1.2 Table Name: payment

COLUMNS			
	Name	Data Type	Description
	payment_id	SERIAL	Unique number identifying each payment transaction
	customer_id	SMALLINT	Unique number identifying each customer





	Name	Data Type	Description
➤	staff_id	SMALLINT	Unique number identifying each staff member
➤	rental_id	INTEGER	Unique ID number for each rental instance
	amount	NUMERIC(5,2)	Amount of payment in USD
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp of the exact date and time the payment was made
LINKS TO			
Table Name		Join	
rental		payment.rental_id = rental.rental_id	
customer		payment.customer_id = customer.customer_id	
staff		payment.staff_id = staff.staff_id	

4.2 Dimension Tables



4.2.1 Table Name: store

COLUMNS			
	Name	Data Type	Description
🔑	store_id	SERIAL	Unique ID number for each store location
➤	manager_staff_id	SMALLINT	Unique ID number for the manager of each store
➤	address_id	SMALLINT	Unique ID number for each address (including stores, staff, and customers. In this case it is the ID for the store address.)
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS TO			
Table Name		Join	
staff		store.manager_staff_id = staff.staff_id	
address		store.address_id = address.address_id	





4.2.2 Table Name: film_actor

COLUMNS			
	Name	Data Type	Description
	actor_id	SMALLINT	Unique ID number given to each film actor
			
	film_id	SMALLINT	Unique ID number given to each film
			
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS TO			
Table Name		Join	
actor		film_actor.actor_id = actor.actor_id	
film		film_actor.film_id = film.film_id	



4.2.3 Table Name: inventory

COLUMNS			
	Name	Data Type	Description
	inventory_id	SERIAL	Unique number identifying each rental unit in inventory
	film_id	SMALLINT	Unique ID number given to each film
	store_id	SMALLINT	Unique ID number for each store location
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS TO			
Table Name		Join	
film		inventory.film_id = film.film_id	
LINKS FROM			
Table Name		Join	
rental		inventory.inventory_id = rental.inventory_id	

4.2.4 Table Name: film_category



COLUMNS			
	Columns	Data Type	Description
 	film_id	SMALLINT	Unique ID number given to each film
 	category_id	SMALLINT	Unique ID number given to each film category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS TO			
Table Name		Join	
category		film_category.category_id = category.category_id	
film		film_category.film_id = film.film_id	

4.2.5 Table Name: customer


COLUMNS			
	Name	Data Type	Description
	customer_id	SERIAL	Unique number identifying each customer
	store_id	SMALLINT	Unique ID number for each store location
	first_name	CHARACTER VARYING(45)	First name of customer
	last_name	CHARACTER VARYING(45)	Last name of customer
	email	CHARACTER VARYING(50)	Email address of customer
	address_id	SMALLINT	Unique ID number for each address (including stores, staff, and customers. In this case it is the ID for the customer address.)
	activebool	BOOLEAN	True or False for if the customer is currently an active customer
	create_date	DATE	The date the customer's account was created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
	active	INTEGER	A 0 or 1 indicating the customer's active status
LINKS TO			
Table Name		Join	
address		customer.address_id = address.address_id	

LINKS FROM	
Table Name	Join
rental	customer.rental_id = rental.rental_id
payment	customer.customer_id = payment.customer_id



4.2.6 Table Name: staff

COLUMNS			
	Name	Data Type	Description
	staff_id	SERIAL	Unique number identifying each staff member
	first_name	CHARACTER VARYING(45)	First name of staff member
	last_name	CHARACTER VARYING(45)	Last name of staff member
	address_id	SMALLINT	Unique ID number for each address (including stores, staff, and customers. In this case it is the ID for the staff address.)
	email	CHARACTER VARYING(50)	Email address of staff member
	store_id	SMALLINT	Unique ID number for each store location
	active	BOOLEAN	True or False for if the staff member is currently an active staff member
	username	CHARACTER VARYING(16)	Staff member username
	password	CHARACTER VARYING(40)	Staff member password
	last_updated	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
	picture	BYTEA	Photo of staff member
LINKS TO			
Table Name		Join	
address		staff.address_id = address.address_id	
LINKS FROM			
Table Name		Join	
store		staff.staff_id = store.manager_staff_id	
payment		staff.staff_id = payment.staff_id	
rental		staff.staff id = rental.staff id	

4.2.7 Table Name: actor


COLUMNS			
	Name	Data Type	Description
	actor_id	SERIAL	Unique ID number given to each actor
	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	Timestamp for the exact date and time this table was last updated
LINKS FROM			
Table Name		Join	
film_actor		actor.actor_id = film_actor.actor_id	

4.2.8 Table Name: film



COLUMNS			
	Name	Data Type	Description
	film_id	SERIAL	Unique ID number given to each film
	title	CHARACTER VARYING(255)	Title of film
	description	TEXT	Description of film in text
	release_year	year	The year the film was released
	language_id	SMALLINT	The language of the film
	rental_duration	SMALLINT	The length of the rental in days
	rental_rate	NUMERIC(4,2)	Price of rental in USD
	length	SMALLINT	Length of film in minutes
	replacement_cost	NUMERIC(5,2)	Cost of replacing each film unit lost in USD
	rating	mpaa_rating	Rating given to each film by the MPAA
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
	special_features	TEXT[]	Special features that accompany the film
	fulltext	TSVECTOR	Text search vectors for full film text searches
LINKS TO			
Table Name		Join	
language		film.language_id = language.language_id	

LINKS FROM	
Table Name	Join
film_actor	film.film_id = film_actor.film_id
inventory	film.film_id = inventory.film_id
film_category	film.film_id = film_category.film_id

4.2.9 Table Name: category


COLUMNS			
	Name	Data Type	Description
	category_id	SERIAL	Unique ID number given to each film category
	name	CHARACTER VARYING(25)	Name of category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS FROM			
Table Name	Join		
film_category	category.category_id = film_category.category_id		

4.2.10 Table Name: address

COLUMNS			
	Name	Data Type	Description
	address_id	SERIAL	Unique ID number for each address (including stores, staff, and customers.)
	address	CHARACTER VARYING(50)	Street address
	address2	CHARACTER VARYING(50)	Second line of street address if needed for unit or apartment number, etc.
	district	CHARACTER VARYING(20)	State, province, or territory of address
	city_id	SMALLINT	Unique ID number given to each city
	postal_code	CHARACTER VARYING(10)	Postal code for each address
	phone	CHARACTER VARYING(20)	Phone number for each customer, store, or staff member whose address is in table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS TO			
Table Name	Join		
city	address.city_id = city.city_id		

LINKS FROM	
Table Name	Join
customer	address.address_id = customer.address_id
staff	address.address_id = staff.address_id
store	address.address_id = store.address_id


4.2.11 Table Name: language

COLUMNS			
	Name	Data Type	Description
	language_id	SERIAL	Unique ID number given to each language in which the films exist
	name	CHARACTER(20)	Language name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS FROM			
Table Name	Join		
film	language.language_id = film.language_id		


4.2.12 Table Name: city

COLUMNS			
	Name	Data Type	Description
🔑	city_id	SERIAL	Unique ID number given to each city
	city	CHARACTER VARYING(50)	Name of city
➡	country_id	SMALLINT	Unique ID number given to each country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS TO			
Table Name		Join	
country		city.country_id = country.country_id	
LINKS FROM			
Table Name		Join	
address		city.city_id = address.city_id	

4.2.13 Table Name: country

COLUMNS			
	Name	Data Type	Description
	country_id	SERIAL	Unique ID number given to each country
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated
LINKS FROM			
Table Name		Join	
city		country.country_id = city.country_id	

4.2.14 Table Name: employees (table does not link to or from any other table)

COLUMNS			
	Name	Data Type	Description
	employee_id	CHARACTER VARYING(30)	Unique ID number given to each employee
	name	CHARACTER VARYING(50)	Name of employee
	contact_number	CHARACTER VARYING(30)	Phone number of employee
	designation_id	INTEGER	Number designating employee
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp for the exact date and time this table was last updated