

# Rockbuster Stealth

## Data Dictionary

CareerFoundry – Data Analytics  
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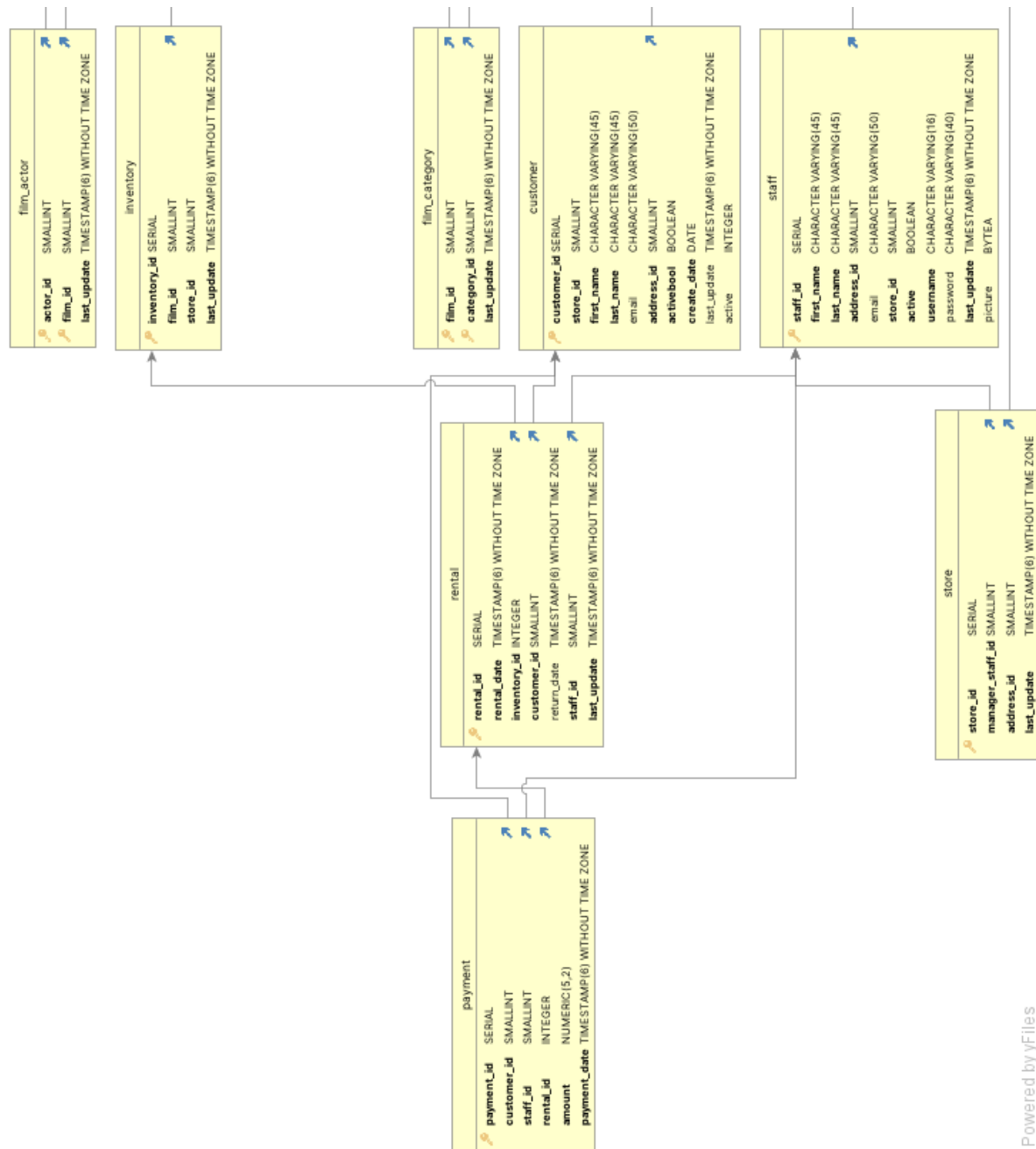
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## 1. Rockbuster Stealth

Rockbuster Stealth LLC is a fictive company, an online provider of movie rentals.

The dataset presented here is fictional and provided by Career Foundry as obligatory achievement for the qualification course of Data Analysis.

## 2. Entity Relationship Diagram



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Figure 1- ERD Part 1 - Left

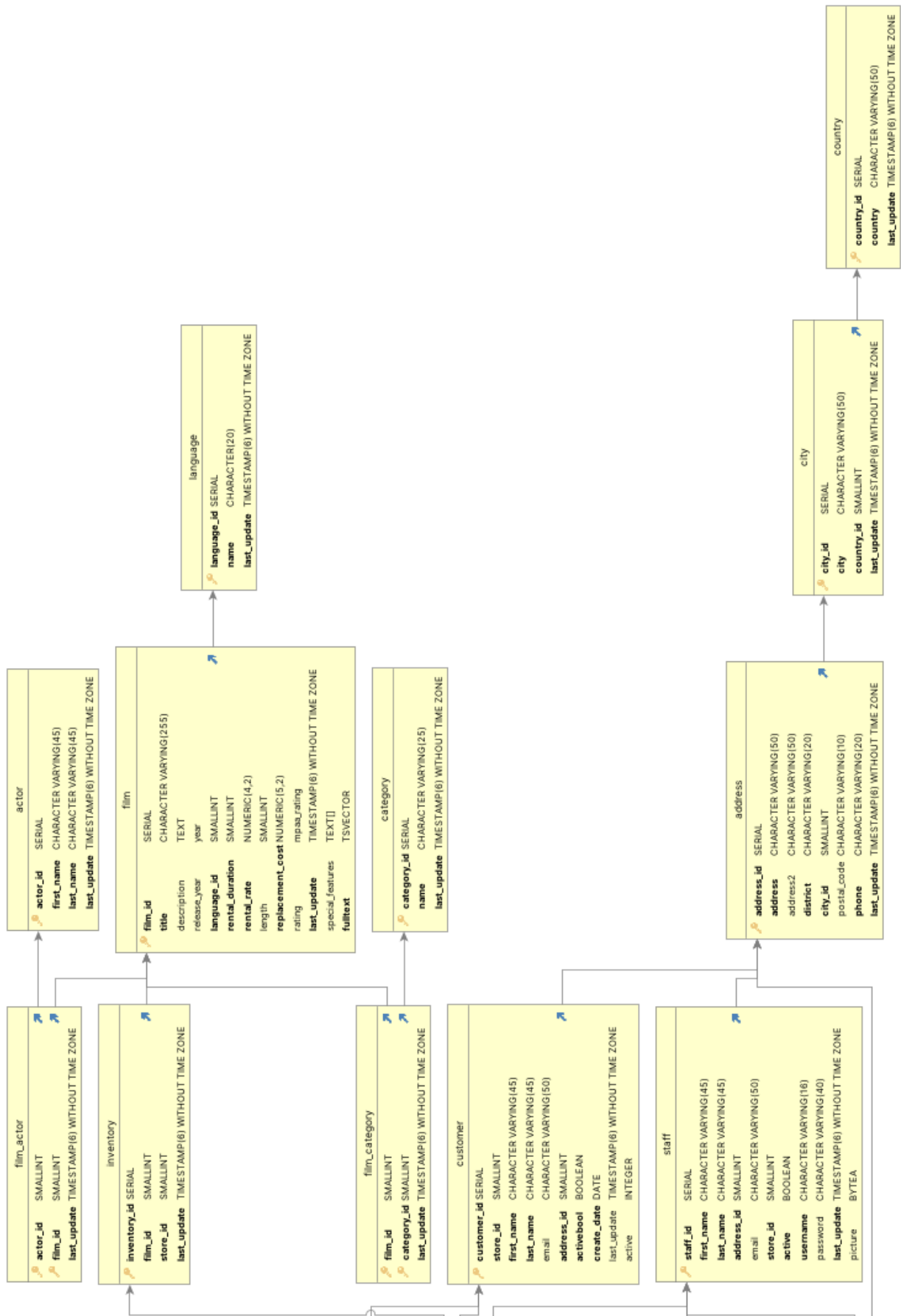


Figure 2- ERD Part Two - Right

### 3. Fact tables

**P = Primary Key**

**F = Foreign Key**

#### 3.1. Payment

Column_Name	KEY	Data_Type	Description
payment_id	P	serial	primary key for unique payment
customer_id	F	smallint	customer unique number
staff_id	F	smallint	staff unique number
rental_id	F	integer	rental unique number
amount		numeric (5,2)	total rental price
payment_date		timestamp (6) without time zone	date of the payment

	Table	Unique Keys Equivalence	
Links to	rental	payment.rental_id	rental.rental_id
	staff	payment.staff_id	staff.staff_id
	customer	payment.customer_id	customer.customer_id
Links from	-	-	-

#### 3.2. Rental

Column_Name	KEY	Data_Type	Description
rental_id	P	serial	primary key for unique rental
rental_date		timestamp (6) without time zone	date of the rental
inventory_id	F	integer	inventory unique number
customer_id	F	smallint	costumer unique number
return_date		timestamp (6) without time zone	date of rental return
staff_id	F	smallint	staff unique number
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	inventory	rental.inventory_id	inventory.inventory_id
	staff	rental.staff_id	staff.staff_id
	customer	rental.customer_id	customer.customer_id
Links from	payment	rental.rental_id	payment.rental_id

## 4. Dimension Tables

**P = Primary Key**

**F = Foreign Key**

### 4.1. Actor

Column_Name	KEY	Data_Type	Description
actor_id	P	serial	primary key for unique 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 time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	-	-	-
Links from	Film_actor	actor.actor_id	film_actor.actor_id

### 4.2. Address

Column_Name	KEY	Data_Type	Description
address_id	P	serial	primary key for unique address
address		character varying (50)	address information
address2		character varying (50)	address information
district		character varying (20)	district name
city_id	F	smallint	cite unique number
postal_code		character varying (10)	postal code
phone		character varying (20)	phone number
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	city	address.city_id	city.city_id
Links from	staff	address.address_id	staff.address_id
	customer	address.address_id	customer.address_id
	store	address.address_id	store.address_id

### 4.3. Category

Column_Name	KEY	Data_Type	Description
category_id	P	serial	primary key for unique category
name		character varying (25)	name of the category
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	-	-	-
Links from	film_category	category.category_id	film_category.category_id

### 4.4. City

Column_Name	KEY	Data_Type	Description
city_id	P	serial	primary key for unique city
city		character varying (50)	city name
country_id	F	smallint	Unique key of city's country
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	country	city.country_id	country.country_id
Links from	address	city.city_id	address.city_id

### 4.5. Country

Column_Name	KEY	Data_Type	Description
country_id	P	serial	primary key for unique country
country		character varying (50)	country name
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	-	-	-
Links from	city	country.country_id	city.country_id



#### 4.6. Customer

Column_Name	KEY	Data_Type	Description
customer_id	P	serial	primary key for unique customer
store_id	F	smallint	store unique number
first_name		character varying (45)	first name of the costumer
last_name		character varying (45)	last name of the costumer
email		character varying (50)	email of the costumer
address_id	F	smallint	address unique number
activebool		boolean	says if the customer is active
create_date		date	when the record was created
last_update		timestamp (6) without time zone	date of last record update
active		integer	says if the customer is active

	Table	Unique Keys Equivalence	
Links to	address	customer.address_id	city.city_id
Links from	payment	customer.customer_id	staff.address_id
	rental	customer.customer_id	customer.address_id

#### 4.7. Film

5. Column_Name	KEY	Data_Type	Description
film_id	P	serial	primary key for unique film
title		character varying (225)	film title
description		text	description of the film
release_year		year	year of release
language_id	F	smallint	language of the film
rental_duration		smallint	duration of the rental
rental_rate		numeric(4,2)	rate of rental by customers
length		smallint	duration of the film
replacement_cost		numeric(5,2)	cost to replace/buy a new one
rating		mpaa_rating	mpaa rating
last_update		timestamp (6) without time zone	date of last record update
special_features		text[]	which special features are available
fulltext		tsvector	information about content

	Table	Unique Keys Equivalence	
Links to	language	film.language_id	language.language_id
Links from	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

#### 4.8. Film\_actor

Column_Name	KEY	Data_Type	Description
actor_id	P	smallint	primary key for unique film actor
film_id	F	smallint	film unique number
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	actor	film_actor.actor_id	actor.actor_id
	film	film_actor.film_id	film.film_id
Links from	-	-	-

#### 4.9. Film\_category

Column_Name	KEY	Data_Type	Description
film_id	P	smallint	primary key for unique film category
category_id	F	smallint	category unique number
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	category	film_category.category_id	category.category_id
	film	film_category.film_id	film.film_id
Links from	-	-	-

#### 4.10. Inventory

Column_Name	KEY	Data_Type	Description
inventory_id	P	serial	primary key for unique inventory
film_id	F	smallint	film unique number
store_id	F	smallint	store unique number
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	film	inventory.film_id	film.film_id
Links from	rental	inventory.inventory_id	rental.inventory_id

#### 4.11. Language

Column_Name	KEY	Data_Type	Description
language_id	P	serial	primary key for unique language
name		character(20)	language name
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	actor	film_actor.actor_id	actor.actor_id
	film	film_actor.film_id	film.film_id
Links from	-	-	-

#### 4.12. Staff

Column_Name	KEY	Data_Type	Description
staff_id	P	serial	primary key for staff
first_name		character varying (45)	first name of staff
last_name		character varying (45)	last name of staff
address_id	F	smallint	address of the store
email		character varying (45)	email of employee
store_id	F	smallint	unique key of store
active		boolean	if staff is active
username		character varying (16)	staff username of store system
password		character varying (40)	staff password of store system
last_update		timestamp (6) without time zone	last time entry was updated
picture		bytea	photo of the staff

	Table	Unique Keys Equivalence	
Links to	address	staff.address_id	address.address_id
Links from	payment	staff.staff_id	payment.staff_id
	rental	staff.staff_id	rental.staff_id
	store	staff.staff_id	store.staff_id

### 4.13. Store

Column_Name	KEY	Data_Type	Description
store_id	P	serial	primary key for unique store
manager_staff_id	F	smallint	staff unique number
address_id	F	smallint	address unique number
last_update		timestamp (6) without time zone	date of last record update

	Table	Unique Keys Equivalence	
Links to	staff	store.manager_staff_id	staff.manager_staff_id
	address	store.address_id	address.address_id
Links from	-	-	-