

ROCKBUSTER STEALTH LLC

Unleashing Rockbuster's Online

A strategic blueprint for video rental supremacy

DATA DICTIONARY

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Data immersion Exercise 3.10

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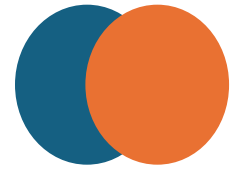
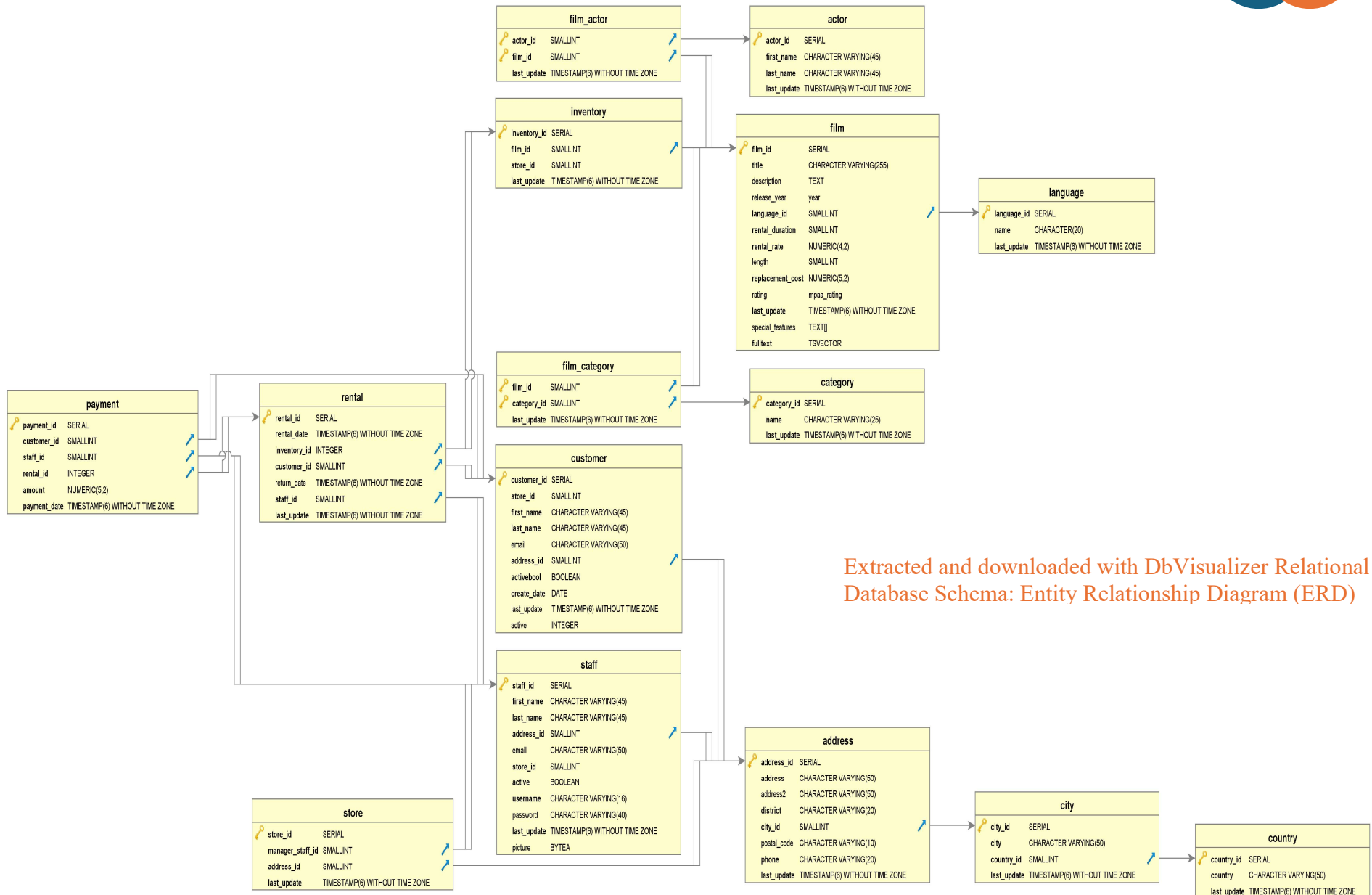


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1. ROCKBUSTER DATABASE ERD



2. FACT TABLES



2.1 PAYMENT

Key	Column	Data Type	Description	Links
PK	payment_id	Serial	Integer value. Unique identifier for payments.	
FK	customer_id	Smallint	Small integer. Unique identification code for customers.	→ customer
FK	staff_id	Smallint	Small integer. Unique identification code for Rockbuster staff, employees.	→ staff
FK	rental_id	Integer	Integer value. Unique identifier for rental transactions	→ rental
	Amount	Numeric(5,2)	Price of the rental. Number representing a monetary amount, with max. 5 digits with 2 number after the decimal point.	
	payment_date	Timestamp(6) without time zone	Date of the payment transaction. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

2.2 RENTAL

Key	Column	Data Type	Description	Links
PK	rental_id	Serial	Integer value. Unique identifier for rental transactions.	← payment
	rental_date	Timestamp(6) without time zone	Data of the rental transaction. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	
FK	inventory_id	Integer	Integer value. Unique identifier for inventory items, film stock available to be rented by customers.	→ inventory
FK	customer_id	Smallint	Small integer. Unique identification code for customers.	→ customer
	return_date	Timestamp(6) without time zone	Date of the rental to be returned. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	
FK	staff_id	Smallint	Small integer. Unique identification code for Rockbuster staff, employees.	→ staff
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

3. DIMENSION TABLES



3.1 ACTOR

Key	Column	Data Type	Description	Links
PK	actor_id	Serial	Integer value. Unique identifier for actor.	← film_actor
	first_name	Character Varying(45)	First name of the actor. Text with a maximum length of 45 characters.	
	last_name	Character Varying(45)	Last name of the actor. Text with a maximum length of 45 characters.	
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

3.2 ADDRESS

Key	Column	Data Type	Description	Links
PK	address_id	Serial	Integer value. Unique identifier for address. It is used to identify addresses in the database, from the Stores, Customers and Staff.	← customer ← store ← staff
	Address	Character Varying(50)	Address used in the database, line 1 (number, street name). Text with a maximum length of 50 characters	
	address2	Character Varying(50)	Extra address details if needed, line 2. Text with a maximum length of 50 characters.	
	District	Character Varying(20)	Name of the district or region. Text with a maximum length of 20 characters	
FK	city_id	Smallint	Small integer. Unique identification code for city.	→ city
	postal_code	Character Varying(10)	Postal code. Text with a maximum length of 10 characters.	
	phone	Character Varying(20)	Phone number. Text with a maximum length of 20 characters	
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

3.3 CATEGORY

Key	Column	Data Type	Description	Links
PK	category_id	Serial	Integer value. Unique identifier for category. It is used to identify film categories.	← film_category
	name	Character Varying(45)	Name of the category. Text with a maximum length of 25 characters.	
	last_update	Character Varying(25)	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

3.4 CITY

Key	Column	Data Type	Description	Links
PK	city_id	Serial	Integer value. Unique identifier for city. It is used to identify the city in the database, from the Stores, Customers and Staff.	← address
	city	Character Varying(50)	City name. Text with a maximum length of 50 characters.	
FK	country_id	Smallint	Small integer. Unique identification code for country. It is used to identify the country in the database, from the Stores, Customers and Staff.	→ country
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

3.5 COUNTRY

Key	Column	Data Type	Description	Links
PK	country_id	Serial	Integer value. Unique identification code for country. It is used to identify the country in the database, from the Stores, Customers and Staff.	← city
	country	Character Varying(50)	Name of the country. Text with a maximum length of 50 characters.	
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	



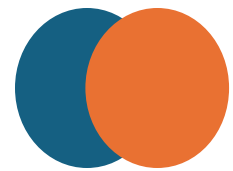
3.6 CUSTOMER

Key	Column	Data Type	Description	Links
PK	customer_id	Serial	Integer value. Unique identification code for customers.	← rental ← payment
	store_id	Smallint	Small integer. Unique identification code for store. It is used to identify Rockbuster' stores.	
	first_name	Character Varying(45)	First name of the customer. Text with a maximum length of 45 characters.	
	last_name	Character Varying(45)	Last name of the customer. Text with a maximum length of 45 characters.	
	email	Character Varying(50)	Email address of the customer. Text with a maximum length of 50 characters	
FK	address_id	Smallint	Address of the customer. Small Integer. Unique identification code for address. It is used to identify addresses in the database, from the Stores, Customers and Staff.	→ address
	activebool	Boolean	Customer account status, it indicates if customer's account is active. Boolean value (true, false, null)	
	create_date	Date	Date of customer's account creation. Date value (yyyy-mm-dd).	
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	
	active	Integer	Number to indicate whether the customer account is active or not. Integer (1,0)	



3.7 FILM

Key	Column	Data Type	Description	Links
PK	film_id	Serial	Integer value. Unique identification code for film. It is used to identify each rental item.	← film_actor ← Film_category ← inventory
	title	Character Varying(255)	Title of the film. Text with a maximum length of 255 characters, including spaces.	
	description	Text	Description of the film, synopsis. Text, unlimited length	
	release_year	Year	The year that the film was released. Integer value.	
FK	language_id	Smallint	Small integer. Unique identification code for the language of the film.	→ language
	rental_duration	Smallint	Rental duration, in total number of days. Small integer	
	rental_rate	Numeric(4,2)	Rental rate, price. Numerical, 4 digits total with 2 after the decimal	
	length	Smallint	The length of the film, in minutes. Small integer.	
	replacement_cost	Numeric(5,2)	The cost for the customer of replacing the film in case of damage or lost. Number representing a monetary amount, with max. 5 digits with 2 number after the decimal point.	
	rating	Mpaa_rating	Age rating of the film. Film rating introduced by Movie Picture Association	
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.sssss)	
	special_features	Text[]	Special features related to the film, extra video content included. Text array	
	fulltext	TSVECTOR	The full list of keywords related to the film. Text	



3.9 FILM_ACTOR

Key	Column	Data Type	Description	Links
FK, PK	actor_id	Smallint	Primary (composite?) and Foreign Key. Small Integer. Unique identifier for actor.	→ actor
FK, PK	actor_id	Smallint	Primary (composite?) and Foreign Key. Small Integer. Unique identifier for actor.	→ film
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

3.10 FILM_CATEGORY

Key	Column	Data Type	Description	Links
FK, PK	film_id	Smallint	Primary (composite?) and Foreign Key. Small Integer. Unique identifier for film.	→ film
FK, PK	category_id	Smallint	Primary (composite?) and Foreign Key. Small Integer. Unique identifier for category. It is used to identify film categories.	→ category
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

3.11 INVENTORY

Key	Column	Data Type	Description	Links
PK	inventory_id	Serial	Integer value. Unique identifier for inventory items, film stock available to be rented by customers.	← rental
FK	film_id	Smallint	Small Integer. Unique identifier for film	→ film → store
	store_id	Smallint	Small integer. Unique identification code for store. It is used to identify Rockbuster' stores.	

	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	
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3.12 LANGUAGE

Key	Column	Data Type	Description	Links
PK	language_id	Serial	Integer value. Unique identification code for the language of the film.	← Film
	name	Character (20)	Name of the language. Text with maximum length of 20 characters.	
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

3.13 STAFF

Key	Column	Data Type	Description	Links
PK	staff_id	Serial	Integer value. Unique identification code for Rockbuster staff, employees.	← Rental ← payment ← store
	first_name	Character Varying(45)	First name of the employee. Text with a maximum length of 45 characters.	
	last_name	Character Varying(45)	Last name of the employee. Text with a maximum length of 45 characters.	
FK	address_id	Smallint	Address of the customer. Small Integer. Unique identification code for address. It is used to identify addresses in the database, from the Stores, Customers and Staff.	→ address
	email	Character Varying(50)	Email address of the employee. Text with a maximum length of 50 characters	
	store_id	Smallint	Small integer. Unique identification code for store. It is used to identify Rockbuster' stores.	

	active	Boolean	Employee account status, it indicates if customer's account is active. Boolean value (true, false, null)	
	username	Character Varying(16)	Employee's username, login ID to acces to the Rockbuster's intranet. Text with a maximum length of 16 characters	
	password	Character Varying(40)	Employee's password, login password to acces to the Rockbuster's intranet. Text with a maximum length of 40 characters	
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	
	active	Bytea	Employee's picture. BYTEA data type stores binary strings in the database, it can only store binary data up to 1GB in a single BYTEA column. In this case, it stores pictures.	

3.14 STORE

Key	Column	Data Type	Description	Links
PK	store_id	Serial	Integer value. Unique identification code for store. It is used to identify Rockbuster' stores.	← inventory ← staff
FK	manager_staff_id	Smallint	Small Integer. Unique identification code for the manager of the staff. It is linked to the staff_id	→ staff
	address_id	Smallint	Small Integer. Unique identifier for address. It is used to identify addresses in the database, from the Stores, Customers and Staff.	address
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

APPENDIX

- FK – Foreign key
- PK – Private key
- Links to →
- Linked from ←