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Data Dictionary

DATA ANALYSIS PROJECT
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ROCKBUSTER STEALTH

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1. Legend

Primary key 

Foreign key 

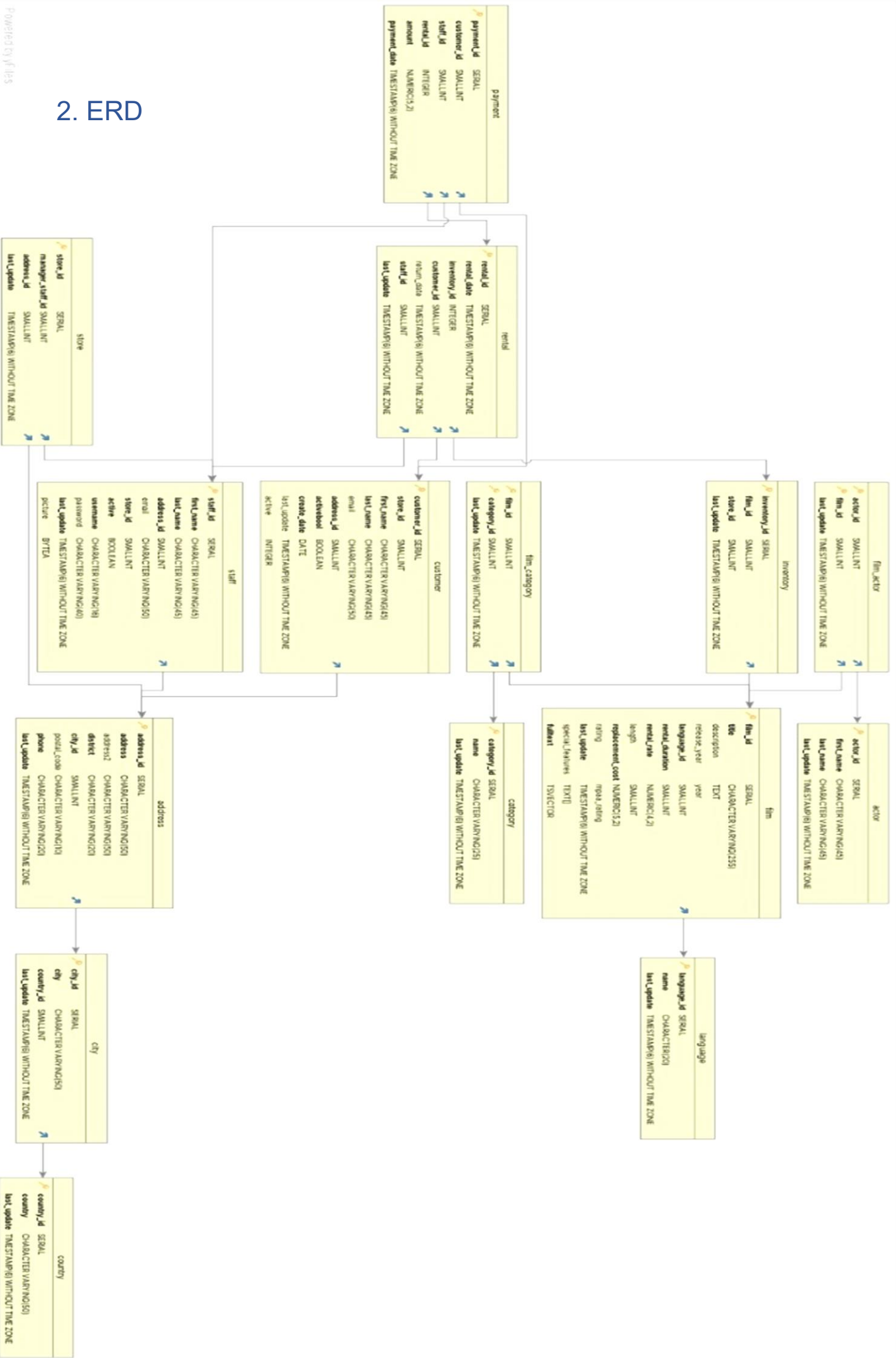
Fact tables

Dimension tables

Links to

Linked from





2. ERD



3. Tables





3.1 Fact tables

3.1.1 table payments

payments	columns		
Key	Name	Data type	Description
	payment_id	Serial	unique payment id
	customer_id	Smallint	unique customer id
	staff_id	Smallint	unique staff id
	rental_id	Integer	unique rental id
	amount	Numeric (5,2)	Amount of payment
	payment_date	Timestamp (6) without time zone	Time of payment

payments	Links to	
Table Name	Join	Description
customer	payment.customer_id = customer.customer_id	Foreign key reference to customer table
staff	payment.staff_id = staff.staff_id	Foreign key reference to staff table
rental	payment.rental_id = rental.rental_id	Foreign key reference to rental table

3.1.2 table rental


rental	columns		
Key	Name	Data type	Description
	rental_id	Serial	unique rental id
	rental_date	Timestamp (6) without time zone	Time of rental
	inventory_id	Integer	unique inventory id
	customer_id	Smallint	unique customer id
	return_date	Timestamp (6) without time zone	Time of return
	Staff_id	Smallint	unique staff id
	last_update	Timestamp (6) without time zone	Time of last update

rental	Links to	
Table Name	Join	Description
inventory	rental.inventory_id = inventory.inventory_id	Foreign key reference to inventory table
customer	rental.customer_id = customer.customer_id	Foreign key reference to customer table
staff	rental.staff_id = staff.staff_id	Foreign key reference to staff table



rental	Linked from	
Table Name	Join	Description
payment	payment.rental_id = rental.rental_id	Foreign key reference to payment table

3.2 Dimension tables


3.2.1 table actor

actor			
Key	Name	Data type	Description
	actor_id	Serial	Unique actor identifier
	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	Time of last update
actor			
Links to			
Table Name	Join		Description
film_actor	film_actor.actor_id=actor.actor_id		Foreign key reference to film_actor table

3.2.2 table address

address		columns	
Key	Name	Data type	Description
	address_id	Serial	Unique address identifier
	Address	Character varying (50)	First line of address
	Address2	Character varying (50)	Second line of address
	district	Character varying (50)	District of address
	city_id	Smallint	Unique city identifier
	postal_code	Character varying (10)	postal code of address
	phone	Character varying (20)	phone number of address
	last_update	Timestamp (6) without time zone	Time of last update
address	Links to		
Table Name	Join		Description
city	address.city_id = city.city_id		Foreign key reference to city table
address	Linked from		
Table Name	Join		Description
store	store.address_id=address.address_id		Foreign key reference from store table
staff	staff.address_id = address.address_id		Foreign key reference from staff table
customer	customer.address_id=address.address_id		Foreign key reference from customer table

3.2.3 table category

category			
Key	Name	Data type	Description
	category_id	Serial	unique film category identifier
	name	Character varying (25)	name of category
	last_update	Timestamp (6) without time zone	Time of last update
category			
Linked from			
Table Name	Join		Description
film_category	film_category.category_id = category.category_id		Foreign key reference from film_category table

3.2.4 table city




city

city		columns	
Key	Name	Data type	Description
	city_id	Serial	unique city identifier
	city	Character varying (50)	name of city
	country_id	Samllint	Unique country identifier
	last update	Timestamp (6) without time zone	Time of last update
city		Links to	
Table Name	Join		Description
country	city.country_id = country.country_id		Foreign key reference to country table
city		Linked from	
Table Name	Join		Description
address	address.city_id = city.city_id		Foreign key reference from address table



3.2.5 table country

country	columns		
Key	Name	Data type	Description
	country_id	Serial	Unique country identifier
	country	Character varying (50)	Name of country
	last_update	Timestamp (6) without time zone	Time of last update
country	Linked from		
Table Name	Join		Description
city	city.country_id = country.country_id		Foreign key reference from city table


3.2.6 table customer

customer	columns		
Key	Name	Data type	Description
	customer_id	Serial	unique customer identifier
	store_id	Smallint	unique store identifier
	first_name	Character varying (45)	name of customer
	last_name	Character varying (45)	last name of customer
	email	Character varying (50)	emailaddress of customer
	address_id	Smallint	unique address identifier
	activebool	Boolean	Customer is active? True/false
	create_date	Date	customer since
	last_update	Timestamp (6) without time zone	Time of last update
	active	Integer	customer is active? 1/0
customer	Links to		
Table Name	Join		Description
store	customer.store_id = store.store_id		Foreign key reference to store table
address	customer.address_id = address.address_id		Foreign key reference to address table
customer	Linked from		
Table Name	Join		Description
rental	rental.customer_id = customer.customer_id		Foreign key reference from rental table
payment	payment.customer_id = customer.customer_id		Foreign key reference from payment table


3.2.7 table film

film	columns		
Key	Name	Data type	Description
	film_id	Serial	unique film identifier
	title	Character varying (255)	title of film
	description	Text	description of film
	release_year	year	release year of film
	language_id	Smallint	unique language identifier
	rental_duration	Smallint	duration of rental
	rental_rate	Numeric (5,2)	rate of rental
	rating	mpaa_rating	Film rating
	last_update	Timestamp (6) without time zone	Time of last update
	special_features	Text[]	special features of film
	fulltext	TSVector	index of film
film	Links to		
Table Name	Join		Description
language	film.language_id = language.language_id		Foreign key reference to language table
film	Linked from		
Table Name	Join		Description
film_actor	film_actor.film_id = film.film_id		Foreign key reference from film_actor table
inventory	inventory.film_id = film.film_id		Foreign key reference from inventory table
film_category	film_category.film_id = film.film_id		Foreign key reference from film_category table




3.2.8 table film_actor

film_actor		columns	
Key	Name	Data type	Description
	actor_id	Smallint	unique actor identifier
	film_id	Smallint	unique film identifier
	last_update	Timestamp (6) without time zone	Time of last update
film_actor		Links to	
Table Name	Join		Description
actor	actor.actor_id = film_actor.actor_id		Foreign key reference to actor table
film	film.film_id = film_actor.film_id		Foreign key reference to film table


3.2.9 table film_category

film_category		columns	
Key	Name	Data type	Description
	film_id	Smallint	unique film identifier
	category_id	Smallint	unique category identifier
	last_update	Timestamp (6) without time zone	Time of last update
film_category		Links to	
Table Name	Join		Description
language	film_category.language_id = language.language_id		Foreign key reference to language table
category	film_category.category_id = category.category_id		Foreign key reference to category table




3.2.10 table inventory

inventory			
Key	Name	Data type	Description
	inventory_id	Serial	unique inventory id
	film_id	Smallint	unique film id
	store_id	Smallint	unique store id
	last_update	Timestamp (6) without time zone	Time of last update
inventory	Links to		
Table Name	Join		Description
film	inventory.film_id = film.film_id		Foreign key reference to film table
store	inventory.store_id = store.store_id		Foreign key reference to store table
inventory	Linked from		
Table Name	Join		Description
rental	rental.inventory_id = inventory.inventory_id		Foreign key reference from rental table




3.2.11 table language

language			
Key	Name	Data type	Description
	language_id	Serial	unique language id
	name	Character (20)	Name of language
	last_update	Timestamp (6) without time zone	Time of last update
language Linked from			
Table Name	Join		Description
film	film.language_id = language.language_id		Foreign key reference from film table

3.2.12 table staff

staff			
Key	Name	Data type	Description
	staff_id	Serial	unique staff id
	first_name	Character varying (45)	name of staff
	last_name	Character varying (45)	last name of staff
	address_id	Smallint	unique address id
	email	Character varying (50)	email address of staff
	store_id	Smallint	unique store identifier
	active	Boolean	staff is active? True/false
	username	Character varying (16)	username of staff
	password	Character varying (40)	password of staff
	last_update	Timestamp (6) without time zone	Time of last update
	picture	BYTEA	Picture of staff
staff	Links to		
Table Name	Join		Description
address	staff.address_id = address.address_id		Foreign key reference to address table
store	staff.store_id = store.store_id = staff.store_id		Foreign key reference to store table
staff	Linked from		
Table Name	Join		Description
rental	rental.staff_id = staff.staff_id		Foreign key reference from rental table
payment	payment.staff_id = staff.staff_id		Foreign key reference from payment table

3.2.13 table store

store			
Key	Name	Data type	Description
	store_id	Serial	unique store identifier
	manager_staff_id	Smallint	unique staff manager id
	address_id	Smallint	unique address id
	last_update	Timestamp (6) without time zone	Time of last update
store	Links to		
Table Name	Join		Description
staff	store.manager_staff_id = staff.staff_id		Foreign key reference to staff table
address	store.address_id = address.address_id		Foreign key reference to address table