



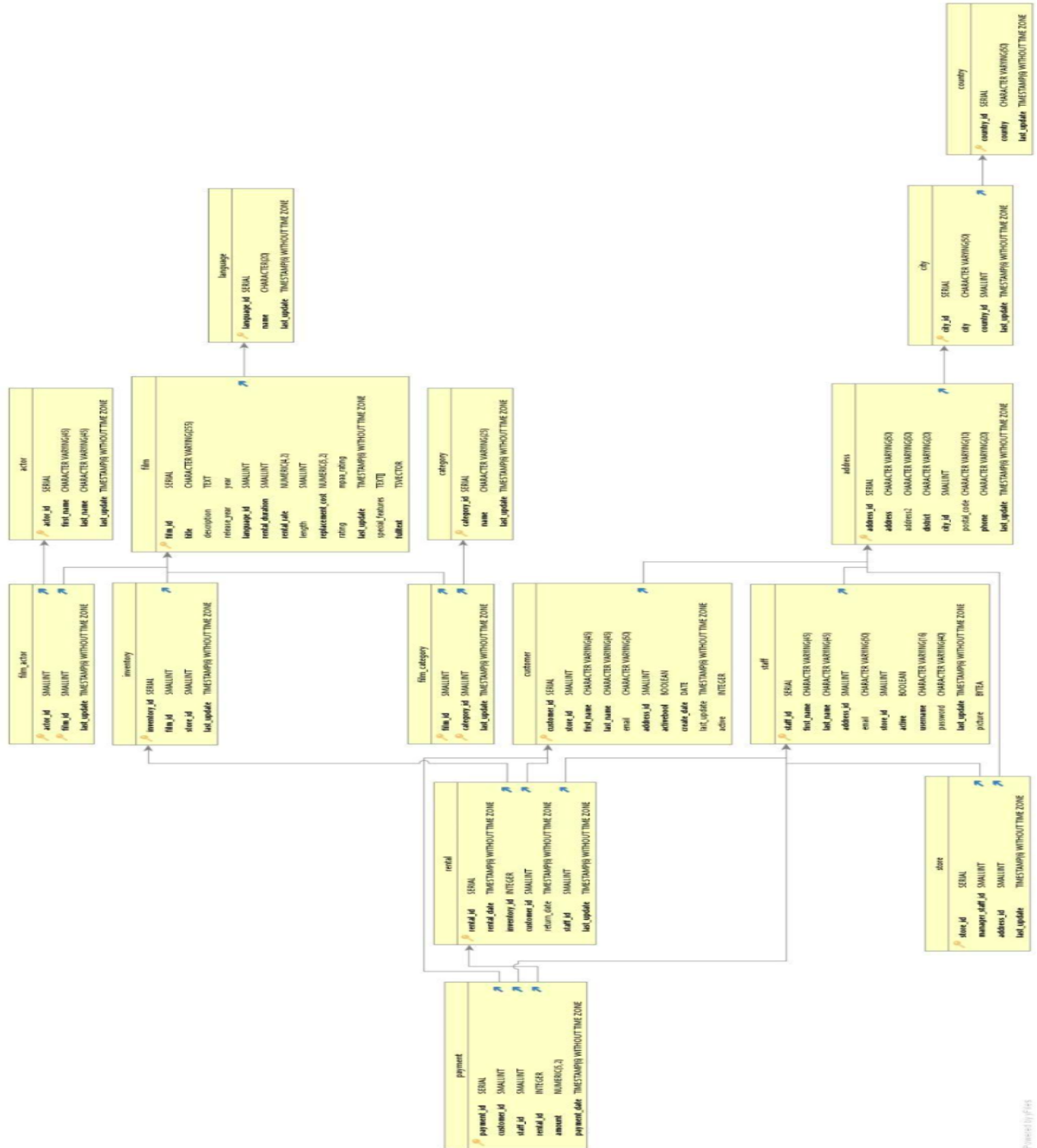
Rockbuster Stealth Data Analysis

Data Dictionary
by
Offeyi Daniel

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1. ERD



2. Fact Tables

2.1 Payment Table

Key	Column	Data Type	Description
Primary Key	payment_id	Serial	Unique identifier for rental
Foreign Key	customer_id	smallint	Unique identifier for customer
Foreign Key	staff_id	smallint	Unique identifier for staff
Foreign Key	rental_id	integer	Unique identifier for rental
	amount	numeric (5,2)	Amount of payment
	payment_date	timestamp (6) without time zone	Date of payment

Payment Table Links To:

Table	Link
Customer	Payment.customer_id=Customer.customer_id
Staff	Payment.staff_id=Staff.staff_id
Rental	Payment.rental_id=Rental.rental_id

Payment Table Links From: N/A

2.2 Rental Table

Key	Column	Data Type	Description
Primary Key	rental_id	Serial	Unique identifier for rental
	Rental_date	timestamp (6) without time zone	Date of rental
Foreign Key	Inventory_id	integer	Unique identifier for inventory
Foreign Key	customer_id	smallint	Unique identifier for customer
	return_date	timestamp (6) without time zone	Date when rental was returned
Foreign Key	staff_id	smallint	Unique identifier for staff
	last_update	timestamp (6) without time zone	Date when data was last updated

Rental Table Links To:

Table	Link
Inventory	Rental.inventory_id=Inventory.Inventory_id
Customer	Rental.customer_id=Customer.customer_id
Staff	Rental.staff_id=Staff.staff_id

Rental Table Links From:

Table	Link
Payment	Payment.rental_id=Rental.rental_id

3. Dimension Tables

3.1 Store Table

Key	Column	Data Type	Description
Primary Key	store_id	Serial	Unique identifier for store
Foreign Key	manager_staff_id	smallint	Unique identifier for managers
Foreign Key	address_id	smallint	Unique identifier for address
	last_update	timestamp (6) without time zone	Date when data was last updated

Store Table Links To

Table	Link
Staff	store.manager_staff_id = staff.staff_id
Address	store.address_id = address.address_id

Store Table Links From: N/A

3.2 Film Actor Table

Key	Column	Data Type	Description
Primary Key, Foreign Key	actor_id	smallint	Unique identifier for actor
Primary Key, Foreign Key	film_id	smallint	Unique identifier for film
	last_update	timestamp (6) without time zone	Date when data was last updated

Film Actor Table Links To:

Table	Link
Film	film_actor.film_id = film.film_id
Actor	film_actor.actor_id = actor.actor_id

Film Actor Table Links From: N/A

3.3 Inventory Table

Key	Column	Data Type	Description
Primary Key	inventory_id	Serial	Unique identifier for inventory
Foreign Key	film_id	smallint	Unique identifier for film
Foreign Key	store_id	smallint	Unique identifier for store
	last_update	timestamp (6) without time zone	Date when data was last updated

Inventory Table Links To:

Table	Link
Film	inventory.film_id=film.film_id

Inventory Table Links From:

Table	Link
Rental	rental.inventory_id=inventory.inventory_id

3.4 Film Category Table

Key	Column	Data Type	Description
Primary Key, Foreign Key	film_id	smallint	Unique identifier for film
Primary Key, Foreign Key	category_id	smallint	Unique identifier for film category
	last_update	timestamp (6) without time zone	Date when data was last updated

Film Category Table Links To:

Table	Link
Film	Film_category.film_id=Film.film_id
Category	Film_category.category_id=Category.category_id

Film Category Table From:

N/A

3.5 Customer Table

Key	Column	Data Type	Description
Primary Key	customer_id	Serial	Unique identifier for customer
Foreign Key	store_id	smallint	Unique identifier for store
	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
Foreign Key	address_id	smallint	Unique identifier for address
	activebool	boolean	Whether the customer is active or not
	create_date	date	date when record has created
	last_update	timestamp (6) without time zone	Date when data was last updated
	active	integer	Status of customer

Customer Table Link To:

Table	Link
Address	Customer.address_id=address.address_id

Customer Table Link From:

Table	Link
Rental	rental.customer_id = customer.customer_id
Payment	payment.customer_id = customer.customer_id

3.6 Staff Table

Key	Column	Data Type	Description
Primary Key	staff_id	Serial	Unique identifier for staff
	first_name	Character varying (45)	First name of staff
	last_name	Character varying (45)	Last name of staff
Foreign Key	address_id	smallint	Unique identifier for address
	email	Character varying (50)	Email address of customer
	store_id	smallint	Unique identifier for store
	active	boolean	Status of staff
	username	Character varying (16)	Username of staff
	password	Character varying (40)	Password of staff
	last_update	timestamp (6) without time zone	Date when data was last updated
	picture	Byte	Picture of staff member

Staff Table Link To:

Table	Link
Address	staff.address_id = address.address_id

Staff Table Link From:

Table	Link
Store	store.manager_staff_id = staff.staff_id
Rental	rental.staff_id = staff.staff_id
Payment	payment.staff_id = staff.staff_id

3.7 Actor Table

Key	Column	Data Type	Description
Primary Key	actor_id	Serial	Unique identifier for 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	Date when data was last updated

Actor Table Link To: N/A**Actor Table Link From:**

Table	Link
Film Actor	film_actor.actor_id = actor.actor_id

3.8 Film Table

Key	Column	Data Type	Description
Primary Key	film_id	Serial	Unique identifier for film
	title	Character varying(255)	Film Title
	description	Text	film description
	release_year	year	Release year of film
Foreign Key	language_id	smallint	Unique identifier for actor
	rental_duration	smallint	Duration of rental
	rental_rate	numeric(4,2)	Price of rent
	length	smallint	length of film
	replacement_cost	numeric(5,2)	film replacement cost
	rating	mpaa_rating	film rating
	last_update	timestamp (6)without time zone	Date when data was last updated
	special_features	Text	Special features of film
	fulltext	Tsvector	Index of film

Film Table Link To:

Table	Link
Language	film.language_id = language.language_id

Film Table Link From:

Table	Link
Film Actor	film_actor.film_id = film.film_id
Inventory	inventory.film_id = film.film_id
Film Category	film_category.film_id = film.film_id

3.9 Category Table

Key	Column	Data Type	Description
Primary Key	category_id	Serial	Unique identifier for film category
	name	Character varying (25)	film category name
	last_update	timestamp (6) without time zone	Date when data was last updated

Category Table Link To: N/A**Category Table Link From:**

Table	Link
Film category	film_category.category_id = category.category_id

3.10 Language Table

Key	Column	Data Type	Description
Primary Key	language_id	Serial	Unique identifier for language
	name	Character (20)	language name
	last_update	timestamp (6) without time zone	Date when data was last updated

Language Table Link To: N/A**Language Table Link From:**

Table	Link
Film	film.language_id = language.language_id

3.11 Address Table

Key	Column	Data Type	Description
Primary Key	address_id	Serial	Unique identifier for address
	address	Character varying (50)	address line 1
	address2	Character varying (50)	address line 2
	district	Character varying (20)	district
Foreign Key	city_id	smallint	Unique identifier for city
	postal_code	Character varying (10)	postal code
	phone	Character varying (20)	phone number
	last_update	timestamp (6) without time zone	Date when data was last updated

Address Table Link To:

Table	Link
City	address.city_id = city.city_id

Address Table Link From:

Table	Link
Staff	staff.address_id = address.address_id
Store	store.address_id = address.address_id
Customer	customer.address_id = address.address_id

3.12 City Table

Key	Column	Data Type	Description
Primary Key	city_id	Serial	Unique identifier for city
	city	Character varying (50)	name of city
Foreign Key	country_id	smallint	Unique identifier for country
	last_update	timestamp (6) without time zone	Date when data was last updated

City Table Link To:

Table	Link
Country	city.country_id = country.country_id

City Table Link From:

Table	Link
Address	address.city_id = city.city_id

3.13 Country Table

Key	Column	Data Type	Description
Primary Key	country_id	Serial	Unique identifier for country
	country	Character varying (50)	name of country
	last_update	timestamp (6) without time zone	Date when data was last updated

Country Table Link To: N/A

Country Table Link From:

Table	Link
City	city.country_id = country.country_id