# **ROCKBUSTER STEALTH LLC.**

DATA DICTIONARY

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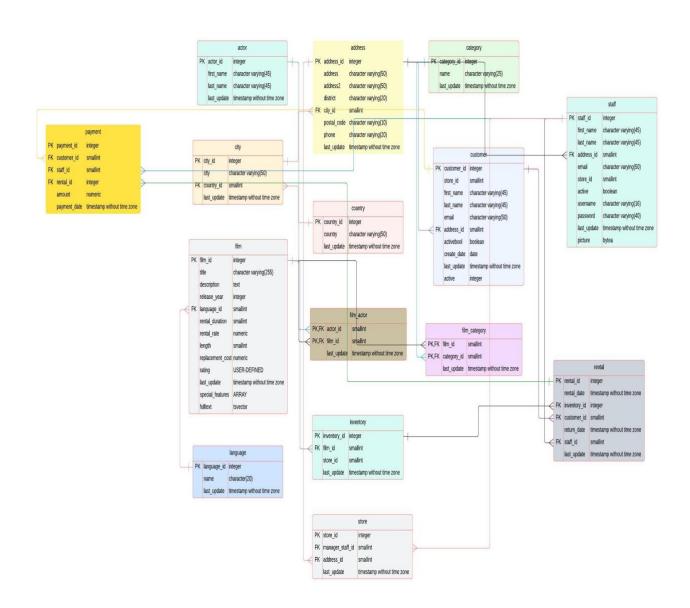
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#### CONCEPTS

- ERD (Entity-Relationship Diagram): An ERD is a visual representation that illustrates the relationships and interactions between entities (objects, concepts, or things) in a database. It uses symbols and lines to show how entities are connected, helping to design and understand the database structure.
- RDBMS (Relational Database Management System): An RDBMS is software that enables the creation, management, and querying of relational databases. It uses a structured approach where data is organized into tables with rows (records) and columns (attributes), allowing for efficient storage, retrieval, and manipulation of data.
- Facts Tables: A facts table in a data warehouse holds quantitative data, such as measurements or metrics, which are often related to transactions or events. It's the central table for capturing key performance indicators (KPIs) and business metrics.
- Dimensions Tables: Dimension tables in a data warehouse provide context and descriptive information for the data in facts tables. They contain attributes that help categorize and filter data, providing insights into the dimensions or aspects of the business, like time, location, or product.
- Relational Databases: Relational databases store and organize data in tables with predefined structures. Tables
  are related through common fields, and these relationships facilitate querying and data integrity.
- Primary Key (PK): A primary key is a unique identifier for each record in a table. It ensures data integrity and serves as a reference for connecting records across different tables. Every primary key value must be unique and not null.
- Foreign Key (FK): A foreign key is a field in a table that establishes a link to the primary key of another table. It
  creates relationships between tables, enforcing referential integrity and allowing data to be connected across
  tables.

#### 2.. ENTITY RELATIONSHIP DIAGRAM (ERD)



#### 3. TABLES

#### FACTS

#### 3.1 Payment table

Table Title	Column	Data Type	Description
PK	Payment_id	integer	Unique ID for payment
FK	customer_id	smallint	Unique ID for customer
FK	staff_id	smallint	Unique ID for Staff
FK	rental_id	integer	Unique ID for rental
	amount	numeric	Monetary cost
	payment_date	timestamp without time zone	Date of payment without time zone

#### Links to

- customer table VIA FK (customer\_id)
- staff table VIA FK (staff\_id)
- rental table VIA (rental\_id)

#### 3.2 rental table

Table Title	Column	Data Type	Description
PK	Rental_id	integer	Unique ID for rental
	rental_date	timestamp without time zone	Date and time of rental without time zone
FK	inventory_id	integer	Unique ID for inventory

FK	customer_id	smallint	Unique ID for customer
	return_date	timestamp without time zone	Date and time of return without time zone
FK	staff_id	smallint	Unique ID for staff
	last_update	timestamp without time zone	Date and time of last update without time zone

- inventory table VIA FK(inventory\_id)
- customer table VIA FK (customer\_id)
- staff table VIA FK (staff\_id)

#### Linked from

• Payment table VIA PK(rental\_id)

#### Dimensions

#### 3.3 actor table

Table	Column	Data Type	Description
PK	actor_id	Integer	Unique ID for actor
	First_name	Character varying (45)	Name of actor
	last_name	Character varying (45)	Last name of actor
	last_update	Timestamp without time zone	Date and time of last update without time zone

#### Linked from

• Film\_actor table VIA PK,FK (actor\_id)

## 3.4 city table

Table	Column	Data Type	Description
PK	City_id	integer	Unique ID for city
	city	Character varying (50)	Name of city
FK	Country_id	Smallint	Unique ID for country
	Last_update	Timestamp without time zone	Date and time of last update without time zone

## Link to

• Country table VIA FK (country\_id)

## Linked from

• Address table VIA PK (city\_id)

#### 3.5 film table

Table	Column	Data Type	Description
PK	Film_id	Integer	Unique ID for film
	Title	Character varying (255)	Title of the movie
	Description	Text	Descrption of film
	Release_year	Integer	Year of film release
FK	Language_id	Smallint	Unique ID for language
	Rental_duration	Smallint	Duration of rental film
	Rental_rate	Numeric	Ratio of film rental
	Length	Smallint	Duration of film
	Replacement_cost	Numeric	Cost of replacement
	Rating	USER-DEFINED	Film rating

Last_update	Timestamp without time zone	Date and time of last update without time zone
Special_features	ARRAY	Film special features
fulltext	tsvector	Fulltext index

• Language table VIA FK (language\_id)

#### Linked from

• Film\_actor table VIA PK,FK (film\_id)

#### 3.6 language table

Title	Column	Data type	Description
PK	Language_id	integer	Unique ID for language
	Name	Character(20)	Language name
	Last_update	Timestamp without time zone	Date and time of last update without time zone

#### Linked from

• Film table VIA PK (language\_id)

#### 3.7 address table

Title	Column	Data Type	Description
PK	Address_id	Integer	Unique ID for address
	Address	Character varying (50)	Address name
	Address2	Character varying (50)	Address 2 name
	District	Character varying (20)	District name
FK	City_id	Smallint	Unique ID for city

Postal_code	Character varying (10)	Postal code number
Phone	Character varying (20)	Phone number
Last_update	Timestamp without time zone	Date and time of last update without time zone

• City table VIA FK (city\_id)

#### Linked from

- Store table VIA PK (address\_id)
- Customer table VIA PK (address\_id)

## 3.8 country table

Title	column	Data Type	Description
PK	Country_id	Integer	Unique ID for country
	Country	Character varying (50)	Name of country
	Last_update	Timestamp without time zone	Time and date of last update without time zone

#### Linked from

• City table VIA PK (country\_id)

## 3.9 film\_actor table

Title	Column	Data Type	Description
PK,FK	Actor_id	Smallint	Unique ID for actor
PK.FK	Film_id	Smallint	Unique ID for film
	Last_update	Timestamp without time zone	Date and time of last update without time zone

#### Link to

- Film table VIA PK,FK (film\_id)
- Actor table VIA PK,FK (actor\_id)

## 3.10 inventory table

Title	Column	Data Type	Description
PK	Inventory_id	integer	Unique ID of inventory
FK	Film_id	Smallint	Unique ID for film
	Store_id	Smallint	Unique ID for store
	Last_update	Timestamp without time zone	Date and time of last update without time zone

#### Link to

• Film table VIA FK (film\_id)

#### Linked from

• Rental table VIA PK (inventory\_id)

## 3.11 store table

Title	Column	Data Type	Description
PK	Store_id	Integer	Unique ID for store
FK	Manager_staff_id	Smallint	Unique ID for manager staff
FK	Address_id	Smallint	Unique ID for address
	Last_update	Timestamp without time zone	Date and time of last update without time zone

#### Link to

- Staff table VIA FK (staff\_id)
- Address table VIA FK (address\_id)

## 3.12 category table

Title	Column	Data Type	Description
PK	Category_id	Integer	Unique ID for integer
	name	Character varying (25)	Name of category
	Last_update	Timestamp without time zone	Date and time of last update without time zone

## Linked from

• Film\_category table VIA PK,FK (category\_id)

## 3.13 customer table

Title	Column	Data Type	Description
PK	Customer_id	Integer	Unique ID of customer
	Store_id	Smallint	Unique ID 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 of customer
FK	Address_id	Smallint	Unique ID for address
	Activebool	Boolean	
	Create_date	Date	Date of creation
	Last_update	Timestamp without time zone	Date and time of last update without time zone
	active	integer	Customer status

#### Link to

• Address table VIA FK (address\_id)

### Linked from

• Payment table VIA PK (customer\_id)

## 3.14 film\_category table

Title	Column	Data Type	Description
PK,FK	Film_id	Smallint	Unique ID for film
PK,FK	Category_id	Smallint	Unique ID for category
	Last_update	Timestamp without time zone	Date and time of last update without time zone

#### Link to

- Film table VIA PK,FK (film\_id)
- Category table VIA PK,FK (category\_id)

#### 3.15 staff table

Title	Column	Data Type	Description
PK	Staff_id	Integer	Unique ID for staff
	First_name	Character varying (45)	Employee first name
	Last_name	Character varying (45)	Employee last name
FK	Address_id	Smallint	Employee address
	Email	Character varying (50)	Employee email
	Store_id	Smallint	Unique ID for store
	Active	Boolean	Employee status
	Username	Character varying (16)	Employee username
	Password	Character varying (40)	Employee password
	Last_update	Timestamp without time zone	Date and time of last update without time zone

picture	bytea	Employee photo

• Address table VIA FK (address\_id)

## Linked from

• Store table VIA PK (staff\_id)