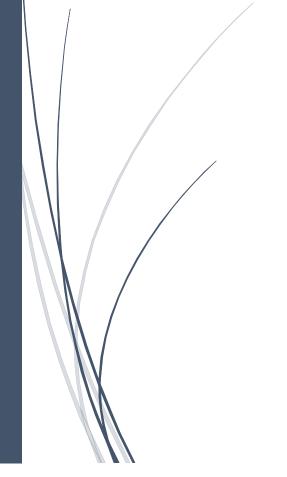
# **Rockbuster Stealth LLC**

# **Data Dictionary**

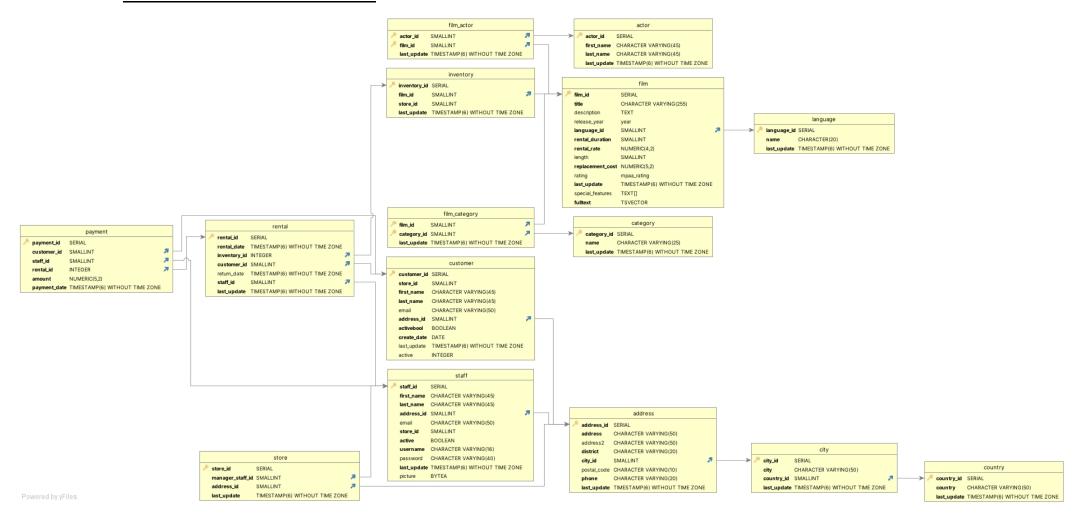


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#### 1. ENTITY RELATIONSHIP DIAGRAM



There are 2 fact tables (payment, rental) linked to numerous dimension tables that detail film, actor, customer and staff information

# <u>Legend</u>





# **2.1 FACT TABLES**

# 2.1.1 Payment

Information regarding payments, who paid and who took payment along with dates.

	Column	Data Type	Description
<b>O</b>	Payment_id	SERIAL	Unique identifier for payment
	Customer_id	SMALLINT	Unique identifier for customer
	Staff_id	SMALLINT	Unique identifier for staff member
	Rental_id	INTEGER	Unique identifier for rental
	Amount	NUMERIC (5,2)	Cost of transaction
	Payment_Date	TIMESTAMP (6) WITHOUT TIME ZONE	Date payment taken

#### Links to

Table	Join	Description
customer	payment.customer_id =	Foreign key link to customer table
	customer.customer_id	
staff	payment.staff_id =	Foreign key link to staff table
	staff.staff_id	
rental payment.rental_id = Foreign key link to rental table		Foreign key link to rental table
	rental.rental_id	

#### **Unique Key Columns**

Key	Column Name	Description
<b>9</b>	payment_id	Unique identifier for payment
	customer_id	Unique identifier for customer
9	staff_id	Unique identifier for staff member
	rental_id	Unique identifier for rental

# **2.1.2 Rental**

Information regarding individual rentals, with dates, customer and staff id's

	Column	Data Type	Description
<b>9</b>	Rental_id	SERIAL	Unique identifier for rental
	Rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of rental
	Inventory_id	INTEGER	Unique identifier for inventory
	Customer_id	SMALLINT	Unique identifier for customer
	Return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date rental returned
	Staff_id	SMALLINT	Unique identifier for staff member
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last time record updated

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

### Links from

Table	Join	Description
payment	payment.rental_id =	Primary key link from payment table
	rental.rental_id	

# **Unique Key Columns**

Key	Column Name	Description
• • • • • • • • • • • • • • • • • • •	rental_id	Unique identifier for rental
	inventory_id	Unique identifier for inventory
	customer_id	Unique identifier for customer
	staff_id	Unique identifier for staff member

# **2.2 DIMENSION TABLES**

# **2.2.1 Store**

Information regarding store and management id's

Column	Data Type	Description
		-

	<b>§</b>	Store_id	SERIAL	Unique identifier for store
	9	Manager_staff_id	SMALLINT	Unique identifier for
	\$			management staff
	<u></u>	Address_id	SMALLINT	Unique identifier for
	3			address
Ī		Last_update	TIMESTAMP (6)	Last time record updated
			WITHOUT TIME ZONE	

Table	Join	Description
staff	store.manager_staff_id = staff.staff_id	Foreign key link to staff table
address store.address_id = Foreign key link to address.address id		Foreign key link to address table

### **Unique Key Columns**

Key	Column Name	Description
9	store_id	Unique identifier for store
9	manager_staff_id	Unique identifier for management staff
	address_id	Unique identifier for address

# 2.2.2 Film\_actor

Information including actor id's and film id's

Column	Data Type	Description
Actor_id	SMALLINT	Unique identifier for actor
Film_id	SMALLINT	Unique identifier for film
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last time record updated

#### Links to

Table	Join	Description
actor	film_actor.actor_id = actor.actor_id	Primary key link to actor table
film film_actor.film_id = film.film id		Primary key link to film table

# **Unique Key Columns**

Key Column Name
-----------------

<b>%</b>	) 💡	actor_id	Unique identifier for actor
<b>%</b>	) 💡	film_id	Unique identifier for film

# 2.2.3 Inventory

Information regarding inventory, film and store id's

	Column	Data Type	Description
P	Inventory_id	SERIAL	Unique identifier for
<b>~</b>			inventory
	Film_id	SMALLINT	Unique identifier for film
	Store_id	SERIAL	Unique identifier for store
	Last_update	TIMESTAMP (6)	Last time record updated
		WITHOUT TIME ZONE	

#### Links to

Table	Join	Description	
film inventory.film_id = film.film_id		Foreign key link to film table	

#### Links from

Table	Join	Description
rental	rental.inventory_id =	Primary key link from rental table
	inventory.inventory_id	

# **Unique Key Columns**

Key	Column Name	Description
<b>₽</b>	inventory_id	Unique identifier for inventory
9	film_id	Unique identifier for film

# 2.2.4 Film\_category

Film and category id's

	Column	Data Type	Description
	Film_id	SMALLINT	Unique identifier for film
9 9	Category_id	SMALLINT	Unique identifier for category
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last time record updated

Table	Join	Description	
film	film_category.film_id = film.film_id	Primary key link to film table	
category film_category.category_id = category.category_id		Foreign key link to category table	

# **Unique Key Columns**

Key		Column Name	Description
<b>9</b>	<b>9</b>	film_id	Unique identifier for film
<b>%</b>	9	category	Unique identifier for category

# 2.2.5 Customer

Personal information on customers and whether they are still active

	Column	Data Type	Description
<u> </u>	Customer_id	SERIAL	Unique identifier for
₹ <b>J</b>			customer
	Store_id	SMALLINT	Unique identifier for store
	First_name	CHARACTER	Customers first name
		VARYING(45)	
	Last_name	CHARACTER	Customers surname
		VARYING(45)	
	Email	CHARACTER	Customers email address
		VARYING(50)	
9	Address_id	SMALLINT	Unique identifier for
3			address
	Activebool	BOOLEAN	True/false if customer still
			active
	Create_date	DATE	Date record created
	Last_update	TIMESTAMP (6)	Last time record updated
		WITHOUT TIME ZONE	
	Active	INTEGER	True/false if customer still
			active in binary form

#### Links to

Table	Join	Description
address	customer.address_id =	Foreign key link to address table
	address.address_id	

Table	Join	Description
rental	rental.customer_id =	Primary key link from rental table
	customer.customer_id	
payment payment.customer_id =		Primary key link from payment table
	customer.customer id	

# **Unique Key Columns**

Key	Column Name	Description
<b>P</b>	customer_id	Unique identifier for customer
9	address_id	Unique identifier for address

# 2.2.6 Staff

Personal details for staff members with login information

	Column	Data Type	Description
<del>\text{\ti}\text{\texi{\text{\texi{\text{\ti}}\\ \ti}\\\ \tinttitex{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\tint{\text{\texi}\text{\texi}\text{\texit{\texi}\tint{\texitil{\text{\texi}\tinz{\texi}\text{\texi}\tinz{\texi{\texi{\texi{\texi{\texi}</del>	Staff_id	SERIAL	Unique identifier for staff member
	First_name	CHARACTER VARYING(45)	Staff members first name
	Last_name	CHARACTER VARYING(45)	Staff members surname
	Address_id	SMALLINT	Unique identifier for staff address
	Email	CHARACTER VARYING(50)	Staff members email address
	Store_id	SMALLINT	Unique identifier for store
	Active	BOOLEAN	True/false if staff member still active
	Username	CHARACTER VARYING(16)	Staff members username
	Password	CHARACTER VARYING(40)	Staff members password
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last time record updated
	Picture	BYTEA	Staff members photo

#### Links to

Table	Join	Description
address	staff.address_id =	Foreign key link to address table
	address.address_id	

Table	Join	Description
payment	payment.staff_id =	Foreign key link from payment table
	staff.staff_id	

### **Unique Key Columns**

Key	Column Name	Description
<b>9</b>	staff_id	Unique identifier for staff member
	address_id	Unique identifier for staff address

### **2.2.7 Actor**

#### Actor names

	Column	Data Type	Description
<b>O</b>	Actor_id	SERIAL	Unique identifier for actor
	First_name	CHARACTER	Actors first name
		VARYING(45)	
	Last_name	CHARACTER	Actors surname
		VARYING(45)	
	Last_update	TIMESTAMP (6)	Last time record updated
		WITHOUT TIME ZONE	

#### Links from

Table	Join	Description
film_actor	film_actor.actor_id =	Primary key link from film_actor table
	actor.actor_id	

# **Unique Key Columns**

Key	Column Name	Description
• • • • • • • • • • • • • • • • • • •	actor_id	Unique identifier for actor

# 2.2.8 Film

Key information about films along with NCAA rating

	Column	Data Type	Description
<b>O</b>	Film_id	SERIAL	Unique identifier for film
	Title	CHARACTER VARYING (255)	Film title
	Description	TEXT	Description of film

Release_year	Year	Year film released
Language_id	SMALLINT	Unique identifier for language
Rental_duration	SMALLINT	Duration of rental
Rental_rate	NUMERIC(4,2)	Rate of rental
Length	SMALLINT	Length of film
Replacement_cost	NUMERIC(5,2)	Cost to replace film
Rating	Mpaa_rating	MPAA film rating
Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last time record updated
Special_features	TEXT[]	Information about films special features
Fulltext	TSVECTOR	Organized list of lexemes from document describing film

Table	Join	Description
language	film.language_id =	Foreign key link to language table
	language.language_id	

### Links from

Table	Join	Description
film_actor	film_actor.film_id = film.film_id	Primary key link from film_actor table
inventory	inventory.film_id = film.film_id	Primary key link from inventory table
film_category	film_category.film_id =	Primary key link from film_category table
	film.film_id	

### **Unique Key Columns**

Key	Column Name	Description
<del>س</del>	film_id	Unique identifier for film
	language_id	Unique identifier for language

# 2.2.9 Category

# Film genres with id's

		Column	Data Type	Description
	<u>0</u>	Category_id	SERIAL	Unique identifier for
	₹J			category
ĺ		Name	CHARACTER VARYING	Name of category
			(25)	

Last_update	TIMESTAMP (6)	Last time record
	WITHOUT TIME ZONE	updated

Table	Join	Description
film_category	film_category.category_id =	Primary key link from film_category table
	category.category_id	

# **Unique Key Columns**

Key	Column Name	Description
<b>P</b>	category_id	Unique identifier for category

# 2.2.10 Address

### Address and contact information for customers

	Column	Data Type	Description
<b>O</b>	Address_id	SERIAL	Unique identifier for address
	Address	CHARACTER VARYING (50)	First line of address
	Address2	CHARACTER VARYING (50)	Second line of address
	District	CHARACTER VARYING (20)	District of address
	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	Last time record updated

#### Links to

Table	Join	Description
city	address.city_id = city.city_id	Foreign key link to city table

#### Links from

Table	Join	Description
customer	customer.address_id =	Primary key link from customer table
	address.address_id	
staff	staff.address_id =	Primary key link from staff table
	address.address_id	
store	store.address_id =	Primary key link from store table
	address_id	

# **Unique Key Columns**

Key	Column Name	Description
<del>س</del>	address_id	Unique identifier for address
<u>رس</u>	city_id	Unique identifier for city

# **2.2.11 Language**

# Language id and names

	Column	Data Type	Description
<u></u>	Language_id	SERIAL	Unique identifier for
₹ <b>J</b>			language
	Name	CHARACTER (20)	Name of language
	Last_update	TIMESTAMP (6)	Last time record
		WITHOUT TIME ZONE	updated

#### Links from

Table	Join	Description
film	film.language_id =	Primary key link from film table
	language.language_id	

# **Unique Key Columns**

Key	Column Name	Description
<b>9</b>	language_id	Unique identifier for language

# 2.2.12 City

# Customer's city

	Column	Data Type	Description
<b>O</b>	City_id	SERIAL	Unique identifier for city
	City	CHARACTER VARYING (50)	Name of city
	Country_id	SMALLINT	Unique identifier for country
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last time record updated

#### Links to

Table	Join	Description
country	city.country_id =	Foreign key link to country table
	country.country_id	

Table	Join	Description
address	address.city_id = city.city_id	Primary key link from address table

# **Unique Key Columns**

Key	Column Name	Description
<b>O</b>	city_id	Unique identifier for city
<b>9</b>	country	Unique identifier for country

# **2.2.13 Country**

#### Customer's country

	Column	Data Type	Description
<u></u>	Country_id	SERIAL	Unique identifier for
8			country
	Country	CHARACTER VARYING (50)	Name of country
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Last time record updated

#### Links from

Table	Join	Description
city	city.country_id =	Primary key link from city table
	country.country_id	

### **Unique Key Columns**

Key	Column Name	Description
<b>9</b>	country_id	Unique identifier for country