

*ROCKBUSTER*

*STEALTH*

Data Dictionary

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## 1. ENTITY RELATIONSHIP DIAGRAM (ERD)



## 2. Fact Tables

### 2.1. Payment Table

KEY	COLUMN	DATA TYPE	DESCRIPTION
Primary Key	payment_id	SERIAL	Unique identifier for payment
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 when payment was made

#### 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 when rental was made
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 of when rental was returned
Foreign Key	staff_id	SMALLINT	Unique identifier for staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated

#### Rental Table Links To:

TABLE	LINK
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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. DIMENSIONS TABLES****3.1 ACTOR TABLE**

KEY	COLUMN	DATA TYPE	DESCRIPTION
Primary Key	actor_id	SERIAL	Unique identifier for store
	first_name	CHARACTER VARYING(45)	First name of the actor
	last_name	CHARACTER VARYING(45)	Last name of the actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated

Actor Table Links To: N/A

**Actor Table Links From:**

TABLE	LINK
Film Actor	film_actor.actor_id = actor.actor_id

**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 of when data was last updated

**Film Actor Table Links To:**

TABLE	LINK
-------	------

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

Film Actor Table Links From: N/A

### 3.3 CATEGORY TABLE

KEY	COLUMN	DATA TYPE	DESCRIPTION
Primary Key	category_id	SERIAL	Unique identifier for category
	name	CHARACTER VARYING(25)	Name of category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated

Category Table Links To: N/A

Category Table Links From:

TABLE	LINK
Film Category	film_category.category_id = category.category_id

### 3.4 FILM TABLE

KEY	COLUMN	DATA TYPE	DESCRIPTION
Primary Key	film_id	SERIAL	Unique identifier for film
	title	CHARACTER VARYING(25)	Title of film
	description	TEXT	Film description
	release_year	YEAR	Film release year
Foreign Key	language_id	SMALLINT	Unique identifier for language
	rental_duration	SMALLINT	Rental duration
	rental_rate	NUMERIC(4,2)	Rental rate of the film
	length	SMALLINT	The length of the film
	replacement_cost	NUMERIC(5,2)	The replacement cost of the film
	rating	MPAA_RATING	The rating of the film
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated
	special_features	TEXT[]	Features of the film
	fulltext	TSVECTOR	Index type

**Film Table Links To:**

TABLE	LINK
Language	film.language_id = language.language_id

**Film Table Links 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

**3.5 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 category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of 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 Links From: N/A****3.6 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 of when data was last updated

**Inventory Table Links To:**

TABLE	LINK
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Film	inventory.film_id = film. film_id
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**Inventory Table Links From:**

TABLE	LINK
Rental	rental. inventory_id = inventory. inventory_id

**3.7 LANGUAGE TABLE**

KEY	COLUMN	DATA TYPE	DESCRIPTION
Primary Key	language_id	SERIAL	Unique identifier for language
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated

Language Table Links To: N/A

**Language Table Links From:**

TABLE	LINK
Film	film. language_id = language. language_id

**3.8 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 the customer
	last_name	CHARACTER VARYING(45)	Last name of the customer
	email	CHARACTER VARYING(50)	Email of the customer
Foreign Key	address_id	SMALLINT	Unique identifier for address
	activebool	BOOLEAN	Active or not / yes or no
	create_date	DATE	Date when customer account first entered
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated



	active	INTEGER	Active integer
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**Customer Table Links To:**

TABLE	LINK
Address	customer. address _id = address. address _id

**Customer Table Links From:**

TABLE	LINK
Rental	rental. customer _id = customer. customer _id
Payment	payment. customer _id = customer. customer _id

**3.9 STAFF TABLE**

KEY	COLUMN	DATA TYPE	DESCRIPTION
Primary Key	staff_id	SERIAL	Unique identifier for staff
	first_name	CHARACTER VARYING(45)	First name of the staff
	last_name	CHARACTER VARYING(45)	Last name of the staff
Foreign Key	address_id	SMALLINT	Unique identifier for address
	email	CHARACTER VARYING(50)	Email of staff
Foreign Key	store_id	SMALLINT	Unique identifier for store
	active	BOOLEAN	Active or not / yes or no
	username	CHARACTER VARYING(16)	Username of the staff
	password	CHARACTER VARYING(40)	Password of the staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated
	picture	BYTEA	Picture of staff

**Staff Table Links To:**

TABLE	LINK
Address	staff. address _id = address. address _id

**Staff Table Links From:**

TABLE	LINK
Store	store. manager_staff _id = staff. staff _id

Rental	rental. staff = staff. staff
Payment	payment. staff_id = staff. staff_id

### 3.10 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 manager staff
Foreign Key	address_id	SMALLINT	Unique identifier for address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of 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

### 3.11 ADDRESS TABLE

KEY	COLUMN	DATA TYPE	DESCRIPTION
Primary Key	address_id	SERIAL	Unique identifier for address
	address	CHARACTER VARYING(50)	Address value
	address2	CHARACTER VARYING(50)	Second address value
	district	CHARACTER VARYING(20)	District value
Foreign Key	city_id	SMALLINT	Unique identifier for city
	postal_code	CHARACTER VARYING(10)	Postal code value
	phone	CHARACTER VARYING(20)	Phone value
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated

#### Address Table Links To:

TABLE	LINK
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City	address. city _id = city. city _id
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**Address Table Links From:**

TABLE	LINK
Customer	customer. address _id = address. address _id
Staff	staff. address _id = address. address _id
Store	store. 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)	City name
Foreign Key	country_id	SMALLINT	Unique identifier for country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated

**City Table Links To:**

TABLE	LINK
Country	city. country _id = country. country _id

**City Table Links 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)	Country name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when data was last updated

**Country Table Links To: N/A**

**Country Table Links From:**

TABLE	LINK
City	city. country _id = country. country _id