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ROCKBUSTER STEALTH LLC

DATA DICTIONARY



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## Legend

🔑 Primary Key

🔑 Unique Key

→ Primary Key relation

← Foreign Key relation

## 1. Fact Tables

### 1.1. Table: payment

	Columns	Data Type	Description
👉	payment_id	serial	Payment identification number
👈	Customer_id	Smallint	Customer identification number
👈	Staff_id	Smallint	Staff identification number
👈	Rental_id	Integer	Rental identification number
	Amount	Numeric (5,2)	Rental amount, max 5 numeric and 2 decimal
	Payment_date	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

#### 1.1.1. Links to

	Table	Join
→	Rental	Payment.rental_id = Rental.rental_id
→	Customer	Payment.customer_id = customer.customer_id
→	staff	Payment.staff_id = staff.staff_id

#### 1.1.2. Unique keys

	Columns	Name/Description
👉	payment_id	Primary key
👈	Customer_id	Foreign key
👈	Staff_id	Foreign key
👈	Rental_id	Foreign key

### 1.2. Table: Film\_actor

	Columns	Data Type	Description
👈👈	actor_id	Smallint	Actor identification number
👈👈	film_id	Smallint	Film identification number
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

#### 1.2.1. Links to

	Table	Join
→	Actor	film_actor.actor_id = actor.actor_id
→	film	Film_actor.film_id = film.film_id

#### 1.2.2. Unique keys

	Columns	Name/Description
👉	actor_id	Primary key
👉	film_id	Primary key
👈	actor_id	Foreign key
👈	film_id	Foreign key

### 1.3. Table: store

	Columns	Data Type	Description
👉	Store_id	Serial	Store identification number
	Manager_staff_id	Smallint	Manager identification number
👉	Address_id	Smallint	Address identification number
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

#### 1.3.1. Links to

	Table	Join
→	Staff	Store.address_id = staff.address_id
→	address	Store.address_id = staff.address_id

#### 1.3.2. Unique keys

	Columns	Name/Description
👉	Store_id	Primary key
👉	Address_id	Foreign key

### 1.4. Table: Film\_category

	Columns	Data Type	Description
👉👉	film_id	Smallint	Film identification number
👉👉	Category_id	Smallint	Category identification number
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

#### 1.4.1. Links to

	Table	Join	Title/Name/Description
→	Film	Film_category.film_id = film.film_id	Foreign key constraint referencing film.film_id
→	category	Film_category.category_id = category.category_id	Foreign key constraint referencing category.category_id

#### 1.4.2. Unique keys

	Columns	Name/Description
👉	film_id	Primary key
👉	Category_id	Primary key
👉	film_id	Foreign key
👉	Category_id	Foreign key

## 2. Dimension Tables

### 2.1. Table: rental

	Columns	Data Type	Description
👉	Rental_id	Serial	Rental identification number
	Rental_date	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits
👉	Inventory_id	Integer	Inventory identification number
👉	Customer_id	Smallint	Customer identification number
	Return_date	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits
👉	Staff_id	Smallint	Staff identification number
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

#### 2.1.1. Links to

	Table	Join
→	Inventory	Rental.inventory_id = inventory.inventory_id
→	Customer	Rental.customer_id = customer.customer_id
→	staff	Rental.staff_id = staff.staff_id

#### 2.1.2. Linked from

	Table	Join
←	payment	Rental.rental_id = payment.rental_id

#### 2.1.3. Unique keys

	Columns	Name/Description
👉	Rental_id	Primary key
👉	Inventory_id	Foreign key
👉	Customer_id	Foreign key
👉	Staff_id	Foreign key

## 2.2. Table: inventory

	Columns	Data Type	Description
👉	Inventory_id	Serial	Inventory identification number
👈	film_id	Smallint	Film identification number
	Store_id	Smallint	Store identification number
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

### 2.2.1. Links to

	Table	Join
→	Film	Inventory.film_id = film.film.id

### 2.2.2. Linked from

	Table	Join
←	Rental	Inventory.inventory_id = rentel.inventory_id

### 2.2.3. Unique keys

	Columns	Name/Description
👉	Inventory_id	Primary key
👈	film_id	Foreign key



### 2.3. Table: customer

	Columns	Data Type	Description
👉	Customer_id	Serial	Customer identification number
	Store_id	Smallint	Store identification number
	First_name	Character Varying(45)	First name, max 45 digits
	Last_name	Character Varying(45)	Last name, max 45 digits
	Email	Character Varying(50)	Email, max 50 digits
👈	Address_id	Smallint	Address identification number
	Activebool	Boolean	Is the customer active? True or false
	Create_date	Date	Creation date of the customers' databank entry
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits
	Active	Integer	number

#### 2.3.1. Links to

	Table	Join
→	Address	Customer.address_id = address.address_id

#### 2.3.2. Linked from

	Table	Join
←	Rental	Customer.customer_id = rental.customer_id

#### 2.3.3. Unique keys

	Columns	Name/Description
👉	Customer_id	Primary key
👈	Address_id	Foreign key

## 2.4. Table: staff

	Columns	Data Type	Description
🔑	staff_id	Serial	Staff identification number
	First_name	Character Varying(45)	First name, max 45 digits
	Last_name	Character Varying(45)	Last name, max 45 digits
🔗	Address_id	Smallint	Address identification number
	Email	Character Varying(50)	Email, max 45 digits
	Store_id	Smallint	Store identification number
	Activebool	Boolean	Is the staff active? True or false
	Active	Integer	
	Username	Character Varying(16)	Username, max 16 digits
	password	Character Varying(40)	Password, max 40 digits
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits
	Picture	BYTEA	Picture of staff

### 2.4.1. Links to

	Table	Join
→	Address	Staff.address_id = address.address_id

### 2.4.2. Linked from

	Table	Join
←	Payment	Staff.staff_id = payment.staff_id

### 2.4.3. Unique keys

	Columns	Name/Description
🔑	staff_id	Primary key
🔗	Address_id	Foreign key

## 2.5. Table: actor

	Columns	Data Type	Description
🔑	actor_id	serial	Actor identification number
	First_name	Character Varying(45)	First name, max 45 digits
	Last_name	Character Varying(45)	Last name, max 45 digits
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

### 2.5.1. Linked from

	Table	Join
←	Film_actor	Actor.actor_id = film_actor.actor_id

### 2.5.2. Unique keys

	Columns	Name/Description
🔑	actor_id	Primary key

## 2.6. Table: film

	Columns	Data Type	Description
👉	film_id	serial	Film identification number
	title	Character Varying(255)	Film title, max 255 digits
	Description	Text	Description of film content
	Release_year	Year	Release year of the film
👈	Language_id	Smallint	Language identification number
	Rental_duration	Smallint	Duration of rental time
	Rental_rate	Numeric(4,2)	Rental rate, max 4 numeric and 2 decimal
	Length	Smallint	Length of the film
	Replacement_cost	Numeric(4,2)	Cost of replacement, max 4 numeric and 2 decimal
	Rating	Mpaa_rating	Rating of the Motion Picture Association of America
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits
	Special_features	Text()	Special features of the film
	Fulltext	Tsvector	"A tsvector value is a sorted list of distinct lexemes, which are words that have been normalized to merge different variants of the same word; sorting and duplicate-elimination are done automatically during input [...]." <sup>1</sup>

### 2.6.1. Links to

	Table	Join
→	Language	Film.language_id = language.language_id

### 2.6.2. Linked from

	Table	Join
←	Inventory	Film.film_id = inventory.film_id

### 2.6.3. Unique keys

	Columns	Name/Description
👉	film_id	Primary key
👈	Language_id	Foreign key

<sup>1</sup> <https://www.postgresql.org/docs/10/datatype-textsearch.html>

## 2.7. Table: Category

	Columns	Data Type	Description
📌	Category_id	Serial	Category identification number
	Name	Character Varying(25)	Category name, max 25 digits
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

### 2.7.1. Linked from

	Table	Join
←	Film_category	Category.category_id = film_category.category_id

### 2.7.2. Unique keys

	Columns	Name/Description
📌	Category_id	Primary key

## 2.8. Table: address

	Columns	Data Type	Description
📌	Address_id	Serial	Address identification number
	Address	Character Varying(50)	Address, max 50 digits
	Address2	Character Varying(50)	Address, max 50 digits
	District	Character Varying(20)	District, max 20 digits
🔗	City_id	Smallint	City identification number
	Postal_code	Character Varying(10)	Postal Code, max 20 digits
	Phone	Character Varying(20)	Phone number, max 20 digits
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

### 2.8.1. Links to

	Table	Join
→	City	Address.city_id = city.city_id

### 2.8.2. Linked from

	Table	Join
←	Customer	Address.address_id = customer.address_id
←	staff	Address.address_id = staff.address_id

### 2.8.3. Unique keys

	Columns	Name/Description
📌	Address_id	Primary key
🔗	City_id	Foreign key

## 2.9. Table: language

	Columns	Data Type	Description
👉	language_id	Serial	Language identification number
	Name	Character(20)	Name of the language, max 20 digits
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

### 2.9.1. Linked from

	Table	Join
←	Film	Language.language_id = film.language_id

### 2.9.2. Unique keys

	Columns	Name/Description
👉	language_id	Primary key

## 2.10. Table: city

	Columns	Data Type	Description
👉	City_id	serial	City identification number
	City	Character Varying(50)	City, max 20 digits
👈	Country_id	smallint	Country identification number
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

### 2.10.1. Links to

	Table	Join
→	Country	City.country_id = country.country_id

### 2.10.2. Linked from

	Table	Join
←	Address	City.city_id = address.city_id

### 2.10.3. Unique keys

	Columns	Name/Description
👉	City_id	Primary key
👈	Country_id	Foreign key

### 2.11. Table: country

	Columns	Data Type	Description
👉	Country_id	serial	Country identification number
	Country	Character Varying(50)	Country, max 20 digits
	Last_update	Timestamp (6) without time zone	date and time (no time zone), time with 6 digits

#### 2.11.1. Linked from

	Table	Join
←	City	Country.country_id = city.country_id

#### 2.11.2. Unique keys

	Columns	Name/Description
👉	Country_id	Primary key