



# Rockbuster Stealth

Data Dictionary

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## 1. Fact Tables

### 1.1 Payment

#### 1.1.1 Table

Columns	Data Type	Description
<b>Payment_id</b>	Serial	Unique record identifier
<b>Customer_id</b>	Smallint	Customer ID number
<b>Staff_id</b>	Smallint	Staff ID number
<b>Rental_id</b>	Integer	Rental ID number
<b>amount</b>	Numeric(5,2)	Payment amount
<b>Payment_date</b>	Timestamp(6) without time zone	Date and time of payment

#### 1.1.2 Links To

Table	Joins	Description
Customer	Customer_id	Customer.customer_id = payment.customer_id
Staff	Staff_id	Staff.staff_id = payment.staff_id
Rental	Rental_id	Rental.rental_id = payment.rental_id

#### 1.1.3 Unique Keys

Column	Description
Payment_id	Primary
Customer_id	Foreign
Staff_id	Foreign
Rental_id	Foreign

### 1.2 Film\_Actor

#### 1.2.1 Table

Columns	Data Type	Description
Actor_id	Smallint	Actor ID number
Film_id	Smallint	Movie ID number
Last_update	Timestame(6) without time zone	Date and time of last data table update

#### 1.2.2 Links To

Table	Joins	Description
Actor	Actor_id	Actor.actor_id = film_actor.actor_id
Film	Film_id	Film.film_id = film_actor.film_id

### 1.2.3 Unique Keys

Column	Description
Actor_id	Primary, Foreign
Film_id	Primary, Foreign

## 1.3 Film\_Category

### 1.3.1 Table

Columns	Data Type	Description
Film_id	Smallint	Movie ID number
Store_id	Smallint	Unique numeric identifier of store
Last_update	Timestamp(6) without time zone	Date and time of last data table update

### 1.3.2 Links To

Table	Joins	Description
Film	Film_id	Film.film_id = film_category.film_id
Category	Category_id	Category.category_id = film_category.category_id

### 1.3.3 Unique Keys

Column	Description
Film_id	Primary, Foreign
Category_id	Primary, Foreign

## 1.4 Store

### 1.4.1 Table

Columns	Data Type	Description
Store_id	Serial	Unique numeric identifier of store
Manager_staff_id	Smallint	Staff identification number
Address_id	Smallint	Address reference number
Last_update	Timestamp(6) without time zone	Date and time of last data table update

### 1.4.2 Links To

Table	Joins	Description
Staff	Staff_id	Staff.staff_id = store.manager_staff_id
Address	Address_id	Address.address_id = store.address_id

### 1.4.3 Unique Keys

Column	Description
Store_id	Primary
Manager_staff_id	Foreign
Address_id	Foreign

## 2. Dimension Tables

### 2.1 Rental

#### 2.1.1 Table

Columns	Data Type	Description
Rental_id	Serial	Rental record ID number
Rental_date	Timestamp(6) without time zone	Date and time of the rental
Inventory_id	integer	Inventory ID number
Customer_id	Smallint	Customer ID number
Return_date	Timestamp(6) without time zone	Date and time customer returned rental
Staff_id	Smallint	Staff ID number
Last_update	Timestamp(6) without time zone	Date and time of last data table update

#### 2.1.2 Links To

Table	Joins	Description
Inventory	Inventory_id	Inventory.inventory_id = rental.inventory_id
Customer	Customer_id	Customer.customer_id = rental.customer_id
Staff	Staff_id	Staff.staff_id = rental.staff_id

#### 2.1.3 Linked From

Table	Joins	Description
Payment	Rental_id	Rental.rental_id = payment.rental_id

#### 2.1.4 Unique Keys

Column	Description
Rental_id	Primary
Inventory_id	Foreign
Customer_id	Foreign
Staff_id	Foreign

## 2.2 Inventory

### 2.2.1 Table

Columns	Data Type	Description
Inventory_id	Serial	Inventory ID number
Film_id	Smallint	Movie ID number
Store_id	Smallint	Unique numeric identifier of store
Last_update	Timestamp(6) without time zone	Date and time of last data table update

### 2.2.2 Links To

Table	Joins	Description
Film	Film_id	Film.film_id = inventory.film_id

### 2.2.3 Linked From

Table	Joins	Description
Rental	Inventory_id	Inventory.inventory_id = rental.inventory_id

### 2.2.4 Unique Keys

Column	Description
Inventory_id	Primary
Film_id	Foreign

## 2.3 Customer

### 2.3.1 Table

Columns	Data Type	Description
Customer_id	Serial	Customer ID number
Store_id	Smallint	Unique numeric identifier of store
first_name	Character varying(45)	First name of customer
Last_name	Character varying(45)	Last name of customer
Email	Character varying(50)	Email contact of customer
Address_id	Smallint	Address of the customer
Activebool	Boolean	Coding activation of whether customer is currently active
Create_date	Date	When customer record was created
Last_update	Timestamp(6) without time zone	Date and time of last data table update
Active	Integer	1 for "yes", 0 for "no"

### 2.3.2 Links To

Table	Joins	Description
Address	Address_id	Address.address_id = customer.address_id

### 2.3.3 Linked From

Table	Joins	Description
Payment	Customer_id	Customer.customer_id = payment.customer_id
Rental	Customer_id	Customer.customer_id = rental.customer_id

### 2.3.4 Unique Keys

Column	Description
Customer_id	Primary
Address_id	Foreign

## 2.4 Staff

### 2.4.1 Table

Columns	Data Type	Description
Staff_id	Serial	Staff ID number
First_name	Character varying(45)	First name of staff member
Last_name	Character varying(45)	Last name of staff member
Address_id	Smallint	Address of staff member
Email	Character varying(50)	Email contact of staff member
Store_id	Smallint	Unique numeric identifier of store
Active	Boolean	Coding activation of whether staff is currently active
Username	Character varying(16)	Login credential of staff member
Password	Character varying(40)	Login credential of staff member
Last_update	Timestamp(6) without time zone	Date and time of last data table update
Picture	Bytea	User picture on file

### 2.4.2 Links To

Table	Joins	Description
Address	Address_id	Address.address_id = staff.address_id

### 2.4.3 Linked From

Table	Joins	Description
Payment	Staff_id	Staff.staff_id = payment.staff_id
Rental	Staff_id	Staff.staff_id = rental.staff_id

Store	Manager_staff_id	Staff.staff_id = store.manager_staff_id
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#### 2.4.4 Unique Keys

Column	Description
Staff_id	Primary
Address_id	Foreign

## 2.5 Actor

#### 2.5.1 Table

Columns	Data Type	Description
Actor_id	Serial	Actor ID number
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 and time of last data table update

#### 2.5.2 Linked From

Table	Joins	Description
Film_actor	Actor_id	Actor.actor_id = film_actor.actor_id

#### 2.5.3 Unique Key

Column	Description
Actor_id	Primary

## 2.6 Film

#### 2.6.1 Table

Columns	Data Type	Description
Film_id	Serial	Movie ID number
Title	Character varying(225)	Title of the movie
Description	Text	Plot Synopsis
Release_year	Year	Year movie was released
Language_id	Smallint	Language the movie is presented in
Rental_duration	Smallint	How long the movie can be rented for
Rental_rate	Numerical(4,2)	How much the rental costs
Length	Smallint	Length of movie in minutes
Replacement_cost	Numeric(5,2)	How much movie would cost to replace if lost/stolen
Rating	Mpaa_rating	What the MPAA rated



Last_update	Timestamp(6) without time zone	Date and time of last data table update
Special_features	Text[]	Special features on DVD
<b>Fulltext</b>	tsvector	Text form optimized for text search

#### 2.6.2 Links To

Table	Joins	Description
Language	Language_id	Language.language_id = film.language_id

#### 2.6.3 Linked From

Table	Joins	Description
Film_actor	Film_id	Film.film_id = film_actor.film_id
Inventory	Film_id	Film.film_id = inventory.film_id
Film_category	Film_id	Film.film_id = film_category.film_id

#### 2.6.4 Unique Keys

Column	Description
Film_id	Primary
Language_id	Foreign

## 2.7 Category

#### 2.7.1 Table

Columns	Data Type	Description
Category_id	Serial	Genre ID number
Name	Character varying(25)	Genre of the film
Last_update	Timestamp(6) without time zone	Date and time of last data table update

#### 2.7.2 Linked From

Table	Joins	Description
Film_category	Category_id	Category.category_id = film_category.category_id

#### 2.7.3 Unique Key

Column	Description
Category_id	Primary

## 2.8 Address

#### 2.8.1 Table

Columns	Data Type	Description
Address_id	Serial	Address ID number

Address	Character varying(50)	Street Address
Address2	Character varying(50)	2 <sup>nd</sup> Line for street address
District	Character varying(20)	State/province of address
City_id	Smallint	City ID number
Postal_code	Character varying(10)	Zip code of address
Phone	Character varying(20)	Phone number of address
Last_update	Timestamp(6) without time zone	Date and time of last data table update

#### 2.8.2 Links To

Table	Joins	Description
City	City_id	City.city_id = address.city_id

#### 2.8.3 Linked From

Table	Joins	Description
Store	Address_id	Address.address_id = store.address_id
Customer	Address_id	Address.address_id = customer.address_id
Staff	Address_id	Address.address_id = staff.address_id

#### 2.8.4 Unique Keys

Column	Description
Address_id	Primary
City_id	Foreign

## 2.9 Language

#### 2.9.1 Table

Columns	Data Type	Description
Language_id	Serial	Language ID number
Name	Character(20)	Language name
Last_update	Timestamp(6) without time zone	Date and time of last data table update

#### 2.9.2 Linked From

Table	Joins	Description
Film	Language_id	Language.language_id = film.language_id

#### 2.9.3 Unique Keys

Column	Description
Language_id	Primary

## 2.10 City

### 2.10.1 Table

Columns	Data Type	Description
City_id	Serial	City ID number
City	Character varying(50)	Name of city
Country_id	Smallint	Country ID number
Last_update	Timestamp(6) without time zone	Date and time of last data table update

### 2.10.2 Links To

Table	Joins	Description
Country	Country_id	Country.country_id = city.country_id

### 2.10.3 Linked From

Table	Joins	Description
Address	City_id	City.city_id = address.city_id

### 2.10.4 Unique Keys

Column	Description
City_id	Primary
Country_id	Foreign

## 2.11 Country

### 2.11.1 Table

Columns	Data Type	Description
Country_id	Serial	Country ID number
Country	Character varying(50)	Name of country
Last_update	Timestamp(6) without time zone	Date and time of last data table update

### 2.11.2 Linked From

Table	Joins	Description
City	Country_id	Country.country_id = city.country_id

### 2.11.3 Unique Keys

Column	Description
Country_id	Primary