



# ROCKBUSTER STEALTH LLC

## DATA DICTIONARY

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## **ROCKBUSTER STEALTH LLC**

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. Facing stiff competition from other streaming services, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service to stay competitive.

# ENTITY RELATIONSHIP DIAGRAM



## Legends

**PK:** Primary Key

**FK:** Foreign Key

## Fact Tables

Payment Table		
Column	Data Type	Description
Payment_id- <b>PK</b>	Serial	Unique ID of payment
Customer_id- <b>FK</b>	Small Int	Unique Customer ID
Staff_id- <b>FK</b>	Small Int	Unique Staff ID
Rental_id- <b>FK</b>	Integer	Unique rental ID
Amount	Numeric	Cost of rental
Payment_date	Timestamp without time zone	Day of payment

### LINKS TO:

Table	Join	Description
Customer	Payment.customer_id= Customer.customer_id	Foreign key referencing to the customer table
Staff	Payment.staff_id= Staff.staff_id	Foreign key referencing to the staff table
Rental	Payment.rental_id= Rental.rental_id	Foreign Key referencing to the rental table

### LINKS FROM:

The payment table doesn't link from any other table.

### UNIQUE KEYS:

Column	Key Type	Description
Payment_id	Primary Key - <b>PK</b>	Unique payment identifier
Rental_id	Foreign Key - <b>FK</b>	Unique rental identifier

Rental Table		
Column	Data Type	Description
Rental_id- <b>PK</b>	Serial	Unique rental ID
Rental_date	Timestamp without time zone	Date of rental
Inventory_id- <b>FK</b>	Integer	Unique Inventory ID
Customer_id- <b>FK</b>	Small Int	Unique Customer ID
Return_date	Timestamp without time zone	Date of return
Staff_id- <b>FK</b>	Small int	Unique Staff ID
Last_update	Timestamp without time zone	Last rental database update

#### LINKS TO:

Table	Join	Description
Inventory	Rental.inventory_id= Inventory.inventory_id	Foreign key referencing to the Inventory table
Customer	Rental.customer_id= Customer.customer_id	Foreign key referencing to the Customer table
Staff	Rental.staff_id= Staff.staff_id	Foreign key referencing to the Staff table

#### LINKS FROM:

Table	Join	Description
Payment	Rental.rental_id= Payment.rental_id	Foreign key referencing to the Payment table

#### UNIQUE KEYS:

Column	Key Type	Description
Rental_id- <b>PK</b>	<b>Primary Key</b> <b>PK</b>	Unique Rental Identifier
Inventory_id- <b>FK</b>	<b>Foreign Key</b> <b>FK</b>	Unique Inventory identifier
Customer_id- <b>FK</b>	<b>Foreign Key</b> <b>FK</b>	Unique Customer identifier
Staff_id- <b>FK</b>	<b>Foreign Key</b> <b>FK</b>	Unique Staff identifier

## Dimension Tables

Film_Actor Table		
Column	Data Type	Description
Actor_id <b>PK,FK</b>	Small Int	Unique Actor ID
Film_id <b>PK,FK</b>	Small Int	Unique film ID
Last_Update	Timestamp without time zone	Last film actor database update

### LINKS TO:

Table	Join	Description
Actor	Film_actor.actor_id= Actor.actor_id	Foreign key referencing to the Actor table
Film	Film_actor.film_id= Film.film_id	Foreign key referencing to the Film table

### LINKS FROM:

The Film\_actor table doesn't link from any other table.

### UNIQUE KEYS:

Column	Key Type	Description
Actor_id	<b>Primary Key -</b> <b>PK</b>	Unique Actor identifier
Film_id	<b>Foreign Key -</b> <b>FK</b>	Unique Film identifier

Inventory Table		
Column	Data Type	Description
Inventory_id <b>PK</b>	Serial	Unique Inventory ID
Film_id <b>FK</b>	Small Int	Unique film ID
Store_id	Small Int	Unique Store ID
Last_update	Timestamp without time zone	Last inventory database update

#### LINKS TO:

Table	Join	Description
Film	Inventory.film_id= Film.film_id	Foreign key referencing to the Film table

#### LINKS FROM:

Table	Join	Description
Rental	Inventory.inventory_id= Rental.inventory_id	Foreign key referencing to the Rental table

#### UNIQUE KEYS:

Column	Key Type		Description
Inventory_id	Primary Key	<b>PK</b>	Unique inventory identifier
Film_id	Foreign Key	<b>FK</b>	Unique Film identifier



Film_Category Table		
Column	Data Type	Description
Film_id <b>PK</b>	Small Int	Unique film ID
Category_id <b>FK</b>	Small Int	Unique Category ID
Last_update	Timestamp without time zone	Last film category database update

#### LINKS TO:

Table	Join	Description
Film	Film_category.film_id= Film.film_id	Foreign key referencing to the Film table
Category	Film_category.category_id= Category.category_id	Foreign key referencing to the Category table

#### LINKS FROM:

The Film\_category table doesn't link from any other table.

#### UNIQUE KEYS:

Column	Key Type	Description
Film_id	<b>Primary Key</b> <b>PK</b>	Unique Film identifier
Category_id	<b>Foreign Key</b> <b>FK</b>	Unique Category Identifier

Customer Table		
Column	Data Type	Description
Customer_id <b>PK</b>	Serial	Unique customer ID
Store_id	Small Int	Unique store ID
First_name	Character Varying (45)	Customer First name
Last_name	Character Varying (45)	Customer Last name
Email	Character Varying (50)	Customer email
Address_id <b>FK</b>	Small Int	Unique address ID
Activebool	Boolean	Customer active status
Create_date	Date	Date of profile creation
Last_update	Timestamp without time zone	Last customer database update
Active	integer	Active status

#### LINKS TO:

Table	Join	Description
Address	Customer.address_id=Address.address_id	Foreign key referencing to the Address table

#### LINKS FROM:

Table	Join	Description
Payment	Customer.customer_id=Payment.customer_id	Foreign key referencing to the Payment table
Rental	Customer.customer_id=Rental.customer_id	Foreign key referencing to the Rental table

#### UNIQUE KEYS:

Column	Key Type	Description
Customer_id	Primary Key <b>PK</b>	Unique Customer identifier
Address_id	Foreign Key <b>FK</b>	Unique Address identifier

Staff Table		
Column	Data Type	Description
Staff_id <b>PK</b>	Serial	Unique staff ID
First_name	Character Varying (45)	Staff First name
Last_name	Character Varying (45)	Staff last name
Address_id <b>FK</b>	Small Int	Unique address ID
Email	Character Varying (50)	Staff email
Store_id	Small Int	Unique Store ID
Active	Boolean	Staff active status
Username	Character Varying (16)	Staff username
Password	Character Varying (40)	Staff password
Last_update	Timestamp without time zone	Last staff database update
Picture	bytea	Staff picture

#### LINKS TO:

Table	Join	Description
Address	Staff.address_id=Address.address_id	Foreign key referencing to the Address table

#### LINKS FROM:

Table	Join	Description
Rental	Staff.staff_id=Rental.staff_id	Foreign key referencing to the Rental table
Store	Staff.store_id=Store.store_id	Foreign key referencing to the Store table
Payment	Staff.staff_id=Payment.staff_id	Foreign key referencing to the Payment table

#### UNIQUE KEYS:

Column	Key Type	Description
Staff_id	Primary Key <b>PK</b>	Unique Staff identifier
Address_id	Foreign Key <b>FK</b>	Unique Address identifier

Store Table		
Column	Data Type	Description
Store_id <b>PK</b>	Serial	Unique Store ID
Manager_staff_id <b>FK</b>	Small Int	Unique manager ID
Address_id <b>FK</b>	Small Int	Unique address ID
Last_update	Timestamp without time zone	Last store database update

#### LINKS TO:

Table	Join	Description
Staff	Sore.manager_staff_id= Staff.staff_staff_id	Foreign key referencing to the Staff table
Address	Store.address_id= Address.address_id	Foreign key referencing to the Address table

#### LINKS FROM:

The store table doesn't link from any other table.

#### UNIQUE KEYS:

Column	Key Type	Description
Store_id	Primary Key <b>PK</b>	Unique Store identifier
Manager_staff_id	Foreign Key <b>FK</b>	Unique Manager Staff identifier
Address_id	Foreign Key <b>FK</b>	Unique Address identifier

Actor Table		
Column	Data Type	Description
Actor_id <b>PK</b>	Serial	Unique Actor ID
First_name	Character Varying (45)	Actor first name
Last_name	Character Varying (45)	Actor last name
Last_update	Timestamp without time zone	Last actor database update

#### LINKS TO:

The Actor table doesn't link from any other table.

#### LINKS FROM:

Table	Join	Description
Film_actor	Actor.actor_id= Film_actor.actor_id	Foreign key referencing to the Film_actor table

#### UNIQUE KEYS:

Column	Key Type	Description
Actor_id	Primary Key <b>PK</b>	Unique Actor identifier

Film Table		
Column	Data Type	Description
Film_id <b>PK</b>	Serial	Unique film ID
Title	Character Varying (255)	Film title
Description	Text	Film description
Release_year	Year	Year film was released
Language_id <b>FK</b>	Small Int	Film language
Rental_duration	Small Int	Length of film rental
Rental_rate	Numeric	Cost of rental
Length	Small Int	Length of film
Replacement_cost	Numeric	Film replacement cost
Rating	Mpaa_rating	Film rating
Last_update	Timestamp without time zone	Last film database update
Special_features	Text	Film special features
Fulltext	Tsvector	Film index

#### LINKS TO:

Table	Join	Description
Language	Film.language_id= Language.language_id	Foreign key referencing to the Language table

#### LINKS FROM:

Table	Join	Description
Film_actor	Film.film_id= Film_Actor.film_id	Foreign key referencing to the Film_Actor table
Inventory	Film.film_id= Inventory.film_id	Foreign key referencing to the Inventory table
Film_category	Film.film_id= Film_category.film_id	Foreign key referencing to the Film_Category table

#### UNIQUE KEYS:

Column	Key Type	Description
Film_id	Primary Key <b>PK</b>	Unique Film identifier
Language_id	Foreign Key <b>FK</b>	Unique Language identifier

Category Table		
Column	Data Type	Description
Category_id <b>PK</b>	Serial	Unique category ID
Name	Character Varying (25)	Name of category
Last_update	Timestamp without time zone	Last category database update

#### LINKS TO:

The Category table doesn't link to any other table.

#### LINKS FROM:

Table	Join	Description
Film_category	Category.category_id= Film_category.category_id	Foreign key referencing to the Film_category table

#### UNIQUE KEYS:

Column	Key Type	Description
Category_id	Primary Key <b>PK</b>	Unique category identifier

Language Table		
Column	Data Type	Description
Language_id <b>PK</b>	Serial	Unique language ID
Name	Character (20)	Language name
Last update	Timestamp without time zone	Last language database update

#### LINKS TO:

The Language table doesn't link from any other table.

#### LINKS FROM:

Table	Join	Description
Film	Language.language_id= Film.language_id	Foreign key referencing to the Film table

#### UNIQUE KEYS:

Column	Key Type	Description
Language_id	Primary Key <b>PK</b>	Unique Language identifier



Address Table		
Column	Data Types	Description
Address_id <b>PK</b>	Serial	Unique address ID
Address	Character Varying (50)	Address line 1
Address_2	Character Varying (50)	Address line 2
District	Character Varying (20)	District
City_id <b>FK</b>	Small Int	Unique city ID
Postal_code	Character Varying (10)	Postal code
Phone	Character Varying (20)	Phone number
Last_update	Timestamp without time zone	Last address database update

#### LINKS TO:

Table	Join	Description
City	Address.city_id= City.city_id	Foreign key referencing to the City table.

#### LINKS FROM:

Table	Join	Description
Customer	Address.address_id= Customer.address_id	Foreign key referencing to the Customer table.
Staff	Address.address_id= Staff.address_id	Foreign key referencing to the Staff table.
Store	Address.address_id= Store.address_id	Foreign key referencing to the Store table.

#### UNIQUE KEYS:

Column	Key Type	Description
Address_id	Primary Key <b>PK</b>	
City_id	Foreign Key <b>FK</b>	

City Table		
Column	Data Type	Description
City_id <b>PK</b>	Serial	Unique city ID
City	Character Varying (50)	City name
Country_id <b>FK</b>	Small Int	Unique country ID
Last_update	Timezone without time zone	Last city database update

#### LINKS TO:

Table	Join	Description
Country	City.country_id= Country.country_id	Foreign key referencing to the Country table.

#### LINKS FROM:

Table	Join	Description
Address	City.city_id= Address.city_id	Foreign key referencing to the Address table.

#### UNIQUE KEYS:

Column	Key Type	Description
City_id	<b>Primary Key</b> <b>PK</b>	Unique City identifier
Country_id	<b>Foreign Key</b> <b>FK</b>	Unique Country identifier.

Country Table		
Column	Data Types	Description
Country_id <b>PK</b>	Serial	Unique country ID
Country	Character Varying (50)	Country name
Last_update	Timestamp without time zone	Last country database update

#### LINKS TO:

The Country table doesn't link to any other table.

#### LINKS FROM:

Table	Join	Description
City	Country.Country_id= City.country_id	Foreign key referencing to the City table.

#### UNIQUE KEYS:

Column	Key Type	Description
Country_id	Primary Key <b>PK</b>	Unique Country identifier.