



ROCKBUSTER STEALTH LLC

Data Dictionary

Justin Fehlberg

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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 streaming services such as Netflix and Amazon Prime, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service in order to stay competitive.

Download the Rockbuster data set

<http://www.postgresqtutorial.com/wp-content/uploads/2019/05/dvdrental.zip>

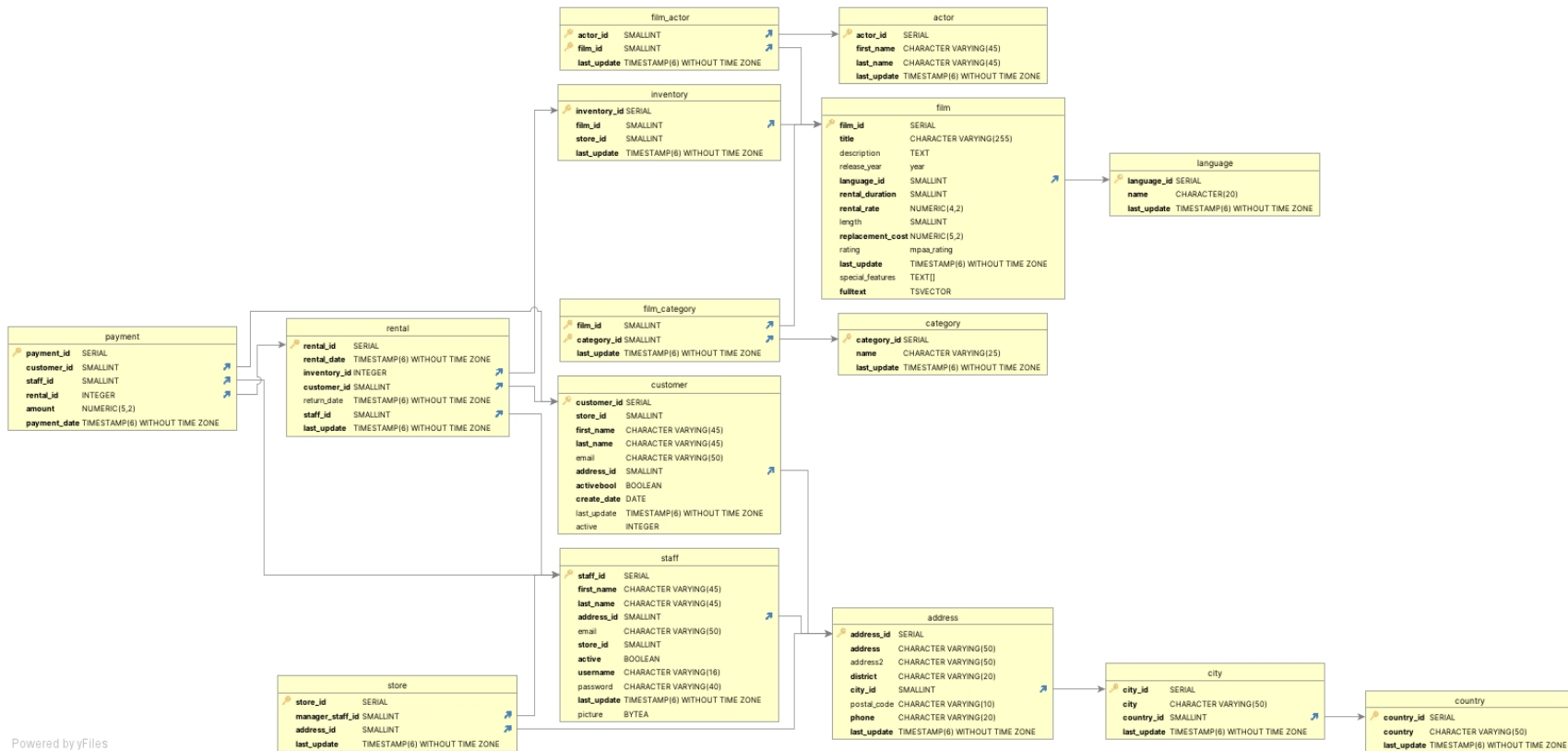
Download the PostgreSQL Database

<https://www.enterprisedb.com/downloads/postgres-postgresql-downloads>

Tableau

<https://public.tableau.com/app/profile/justin.fehlberg3034>

Entity Relationship Diagram (ERD)



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Tables

Primary Key







Foreign Key



Fact Tables

Payment

Columns	Data Type	Description
Payment_id 	Serial	Unique payment identifier
Customer_id 	Smallint	Unique customer identifier
Staff_id 	Smallint	Unique staff identifier
Rental_id 	Integer	Unique rental identifier
Amount	Numeric(5,2)	Amount paid
Payment_date	Timestamp(6) without time zone	Date of payment received





Links To

Table	Join	Description
Customer	payment.customer_id = customer.customer_id	Foreign key reference to customer table
Staff	Payment.staff_id = Staff.staff_id	Foreign key reference to customer table
Rental	Payment.rental_id = Rental.rental_id	Foreign key reference to customer table





Links From

The Payment Table does not link from anywhere.

Unique keys

Column	Key Type	Description
Payment_id	Primary Key 	Unique payment identifier
Customer_id	Foreign Key 	Unique customer identifier
Staff_id	Foreign Key 	Unique staff identifier
Rental_id	Foreign Key 	Unique rental identifier

Rental

Rental_id 	Serial	Unique rental identifier
Rental_date	Timestamp(6) without time zone	Date of rental
Inventory_id 	Integer	Unique inventory identifier
Customer_id 	Smallint	Unique customer Identifier
Return_Date	Timestamp(6) without time zone	Date of return
Staff_id 	Smallint	Unique staff identifier
Last_update	Timestamp(6) without time zone	Date of last update





Links To

Table	Join	Description
Inventory	Rental.inventory_id = Inventory.inventory_id	Foreign key reference to inventory table
Customer	Rental.customer_id = Customer.customer_id	Foreign key reference to customer table
Staff	Rental.Staff_id = Staff.staff_id	Foreign key reference to staff table

Links From




Table	Join	Description
Payment	Rental.rental_id = Payment.rental_id	Foreign key reference to payment table

Unique Keys

Column	Key Type	Description
Rental_id	Primary Key 	Unique rental identifier
Inventory_id	Foreign Key 	Unique inventory identifier
Customer_id	Foreign Key 	Unique customer Identifier
Staff_id	Foreign Key 	Unique staff identifier

Dimension Tables

Store

Store_id 	Serial	Unique store identifier
Manager_staff_id 	Smallint	Unique manager identifier
Address_id 	Smallint	Unique address identifier
Last_Update	Timestamp(6) without time zone	Time of last store update




Links To

Table	Join	Description
Address	Store.address_id = Address.address_id	Foreign key reference to Address table
Staff	Store.manager_staff_id = Staff.staff_id	Foreign key reference to Staff table



Links From

The Store Table does not link from anywhere.

Unique Keys

Column	Key Type	Description
Store_id	Primary Key 	Unique store identifier
Manager_staff_id	Foreign Key 	Unique manager identifier
Address_id	Foreign Key 	Unique address identifier

Film_actor

Actor_id 	Smallint	Unique actor identifier
Film_id 	Smallint	Unique film identifier
Last_Update	Imestamp(6) without time zone	Time of last actyor Update



Links To

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



Links From

The Film_actor Table does not link from anywhere.

Unique Keys

Column	Key Type	Description
Actor_id	Primary Key 	Unique Actor identifier
Film_id	Foreign Key 	Unique Film identifier

Inventory

Inventory_id 	Serial	Unique Inventory identifier
Film_id 	Smallint	Unique Film identifier
Story_id	Smallint	Unique store idendifier
Last_Update	Timestamp(6) Without time zone	Date of last inventory update



Links To

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



Links From

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

Unique Keys

Column	Key Type	Description
Inventory_id	Primary Key 	Unique Inventory identifier
Film_id	Foreign Key 	Unique Film identifier

Film_category

Film_id 	Smallint	Unique film identifier
Category_id 	Smallint	Unique category identifier
Last_Update	Timestamp(6) without time zone	Date of last film update



Links To

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



Links From

The Film_category Table does not link from anywhere.

Unique Keys

Column	Key Type	Description
Film_id	Primary Key 	Unique Film identifier
Category_id	Foreign Key 	Unique Category identifier

Customer

Customer_id 	Serial	Unique customer identifier
Store_id	Smallint	Unique store identifier
First_name	Character Varying(45)	First name of customer
Last_name	Character Varying(45)	Last name of customer
Email	Character Varying(50)	Email of customer
Address_id 	Smallint	Unique address Identifier
Activebool	Boolean	If customer is active or not
Create_Date	Date	Date when customer is created
Last_Update	Timestamp(6) without time zone	Date customer was last updated
Active	Integer	How long customer is active



Links To

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



Links From

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

Unique Keys

Column	Key Type	Description
Customer_id	Primary Key 	Unique Customer identifier
Address_id	Foreign Key 	Unique Address identifier

Staff

Staff_id 	Serial	Unique staff identifier
First_Name	Character Varying(45)	First name of staff
Last_Name	Character Varying(45)	Last name of staff
Address_id 	Smallint	Unique address identifier
Email	Character varying(50)	Staff email address
Store_id	Smallint	Unique store identifier
Active	Boolean	If staff member is active or not
Username	Character Varying(16)	Staff member username
Password	Character Varying(40)	Staff member password
Last_update	Timestamp(6) without time zone	Last update of staff member
Picture	Bytea	Picture of staff member



Links To

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


Links From

Table	Join	Description
Rental	Staff.staff_id = Rental.staff_id	Foreign key reference to Rental table
Payment	Staff.staff_id = Payment.staff_id	Foreign key reference to Payment table
Store	Staff.staff_id = Store.staff_id	Foreign key reference to Store table

Unique Keys

Column	Key Type	Description
Staff_id	Primary Key 	Unique Staff identifier
Address_id	Foreign Key 	Unique Address identifier

Actor

Actor_id 	Serial	Unique actor identifier
First_Name	Character varying(45)	Actor first name
Last_name	Character varying(45)	Actor last name
Last_Update	Timestamp(6) without time zone	Last update of actor


Links To

The Actor table does not link to anywhere.



Links From

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

Unique Keys

Column	Key Type	Description
Actor_id	Primary Key 	Unique Identifier for an Actor

Film

Film_id 	Serial	Unique film identifier
Title	Character varying(255)	Title of film
Description	Text	Description of film
Release_year	Year	Year film released
Language_id 	Smallint	Identifier of 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
Rating	Mpaa_rating	Film rating
Last_update	Timestamp(6) without time zone	Last update of film
Special_features	Text[]	Film special features
Fulltext	Tsvector	Text of film



Links To

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


Links From

Table	Join	Description
Film_actor	Film.film_id = Film_actor.film_id	Foreign key reference to Film Actor table
Inventory	Film.film_id = Inventory.film_id	Foreign key reference to Inventory table
Film_category	Film.film_id = Film_category.film_id	Foreign key reference to Film Category table

Unique Keys

Column	Key Type	Description
Film_id	Primary Key 	Unique Film identifier
Language_id	Foreign Key 	Unique Language identifier

Category

Category_id 	Serial	Unique category identifier
Name	Character varying(45)	Category name
Last_update	Timestamp(6) without time zone	Category last update


Links To

The Category table does not link to anywhere.



Links From

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

Unique Keys

Column	Key Type	Description
Category_id	Primary Key 	Unique Identifier for a Category

Address

Address_id 	Serial	Unique address identifier
Address	Character varying(50)	Address
Address2	Character varying(50)	Second address
District	Character varying(20)	District
City_id 	Smallint	City identifier
Postal_code	Character varying(10)	Postal code
Phone	Character varying(20)	Phone number
Last_Update	Timestamp(6) without time zone	Last address update



Links To

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


Links From

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

Unique Keys

Column	Key Type	Description
Address_id	Primary Key 	Unique Address identifier
City_id	Foreign Key 	Unique City identifier

Language

Language_id 	Serial	Unique language identifier
Name	Character(20)	Name of language
Last_update	Timestamp(6) without time zone	Last language update


Links To

The Language table does not link to anywhere.



Links From

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

Unique Keys

Column	Key Type	Description
Language_id	Primary Key 	Unique Language Identifier

City

City_id 	Serial	city identifier
City	Character varying(50)	Name of city
Country_id 	Smallint	Country identifier
Last_update	Timestamp(6) without time zone	Last city update



Links To

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


Links From

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

Unique Keys

Column	Key Type	Description
City_id	Primary Key 	Unique City identifier
Country_id	Foreign Key 	Unique Country identifier

Country

Country_id 	Serial	Country identifier
Country	Character varying(50)	Name of country
Last_update	Timestamp(6) without time zone	Last country update


Links To

The Country table does not link to anywhere.

Links From

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

Unique Keys

Column	Key Type	Description
Country_id	Primary Key 	Unique Country Identifier