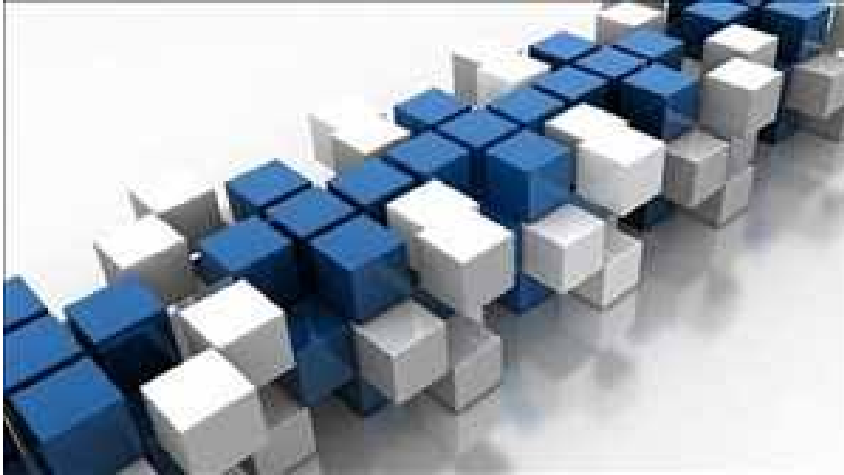


# ROCKBUSTER



## Data Dictionary

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Version 1.0

Cleber Juliano Ferrareze  
Databases & SQL for Analysts  
3.10: Presenting SQL Results

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# 1. ROCKBUSTER

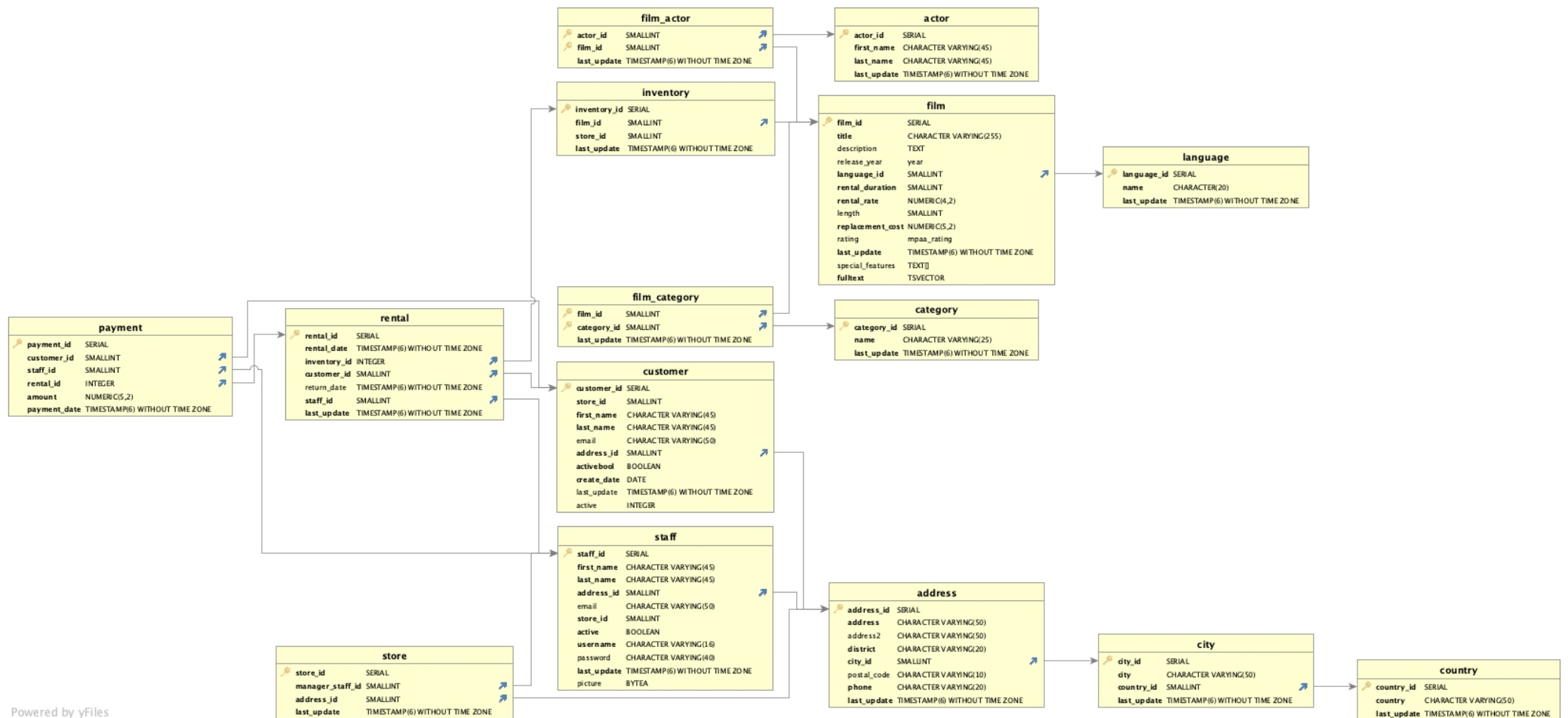
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## 1.1 Documentation

This is the Rockbuster data dictionary documentation.

Rockbuster supports standard online transaction processing data for a fictitious film's rental company. Business process includes film's rental, keeping records of customers, staff, stores, films, actors, cities and countries.

## 2 BUSINESS ENTITIES



# FACT TABLE

## 2.1 RENTAL

Data when the rental was initiated and finished.

Table: rental		
Columns	Data Type	Description
rental_id (PK)	SERIAL	Serial number assigned to a rental Primary key
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Initial date when the rental initiated
investory_id (FK)	INTEGER	Unique number to inventory Foreign key
customer_id (FK)	SMALLINT	Number assigned to the customer Foreign key
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	End date when the rental is finished
staff_id (FK)	SMALLINT	Staff member unique number Foreign key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the rental's record was updated.

### Linked To

Table	Join
inventory	ON rental.inventory_id (FK) = inventory.inventory_id (PK)
customer	ON rental.customer_id (FK) = customer.customer_id (PK)
staff	ON rental.staff_id (FK) = staff.staff_id (PK)

### Linked From

Table	Join
payment	ON rental.rental_id (PK) = payment.rental_id (FK)

# DIMENSION TABLES

## 2.2 CUSTOMER

Names of individual customers.

Table: customer		
Columns	Data Type	Description
customer_id (PK)	SERIAL	Serial number assigned to the customer Primary key
store_id (FK)	SMALLINT	Unique store's number Foreign key
first_name	CHARACTER VARYING(45)	Customer's name
last_name	CHARACTER VARYING(45)	Customer's last name
email	CHARACTER VARYING(50)	Customer's email
address_id (FK)	SMALLINT	Customer's address Foreign key
activebool	BOOLEAN	Attribute (yes or no) to identify if the customer is active
create_date	DATE	Data when the customer was added in the system
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the customer's record was updated
active	INTEGER	Attribute (yes or no) to identify if the customer is active

### Linked To

Table	Join
address	ON customer.address_id (FK) = address.address_id (PK)

### Linked From

Table	Join
payment	ON customer.customer_id (PK) = payment.customer_id (FK)
rental	ON customer.customer_id (PK) = rental.customer_id (FK)

## 2.3 STAFF

Names of individual staff.

staff		
Columns	Data Type	Description
staff_id	SERIAL	Staff member unique number
first_name	CHARACTER VARYING(45)	Staff member's first name
last_name	CHARACTER VARYING(45)	Staff member's last name
address_id	SMALLINT	Staff member's address
email	CHARACTER VARYING(50)	Staff member's E-mail
store_id	SMALLINT	Store where the staff works (is assigned)
active	BOOLEAN	Attribute (yes or no) to identify if the staff is active
username	CHARACTER VARYING(16)	Staff member's user name which allows he/she login to the systems
password	CHARACTER VARYING(40)	Staff member's password which allows he/she login to the systems
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the staff's record was updated
picture	BYTEA	Staff member's picture

### Linked To

Table	Join
address	ON staff.address_id (FK) = address.address_id (PK)

### Linked From

Table	Join
payment	ON staff.staff_id (PK) = payment.staff_id (FK)
store	ON store.store_id (PK) = staff.store_id (FK)

## 2.4 FILM

Names of individual films.

Table: film		
Columns	Data Type	Description
film_id (PK)	SERIAL	Serial number assigned to a film. Primary key
title	CHARACTER VARYING(255)	Film's title
description	TEXT	Film's description
release_year	YEAR	Year when the film was released
language_id (FK)	SMALLINT	Film's language. Foreign key
rental_duration	SMALLINT	Film's rental duration
rental_rate	NUMERIC(4,2)	Film's rental cost
length	SMALLINT	Film's duration
replacement_cost	NUMERIC(5,2)	Film's replacement cost
rating	MPAA_RATING	Film's rating assigned by customers
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the film's record was updated.
special_features	TEXT	Film's special features that could be highlighted (eg. trailer)
fulltext	TSVECTOR	Extra information about the film.

### Linked To

Table	Join
language	ON film.language_id (FK) = language.language_id (PK)

### Linked From

Table	Join
film_actor	ON film.film_id (PK) = film_actor.film_id (FK)
film_category	ON film.film_id (PK) = film_category.film_id (FK)
inventory	ON film.film_id (PK) = inventory.film_id (FK)



## 2.5 PAYMENT

Amount and dates for individual film payments.

Table: payment		
Columns	Data Type	Description
payment_id (PK)	SERIAL	Serial number assigned to the payment. Primary key
customer_id (FK)	SMALLINT	Number assigned to the customer. Foreign key
staff_id (FK)	SMALLINT	Staff member unique number. Foreign key
rental_id (FK)	INTEGER	Number assigned to a rental. Foreign key
amount	NUMERIC(5,2)	Value of the film rental
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when the payment was made

### Linked To

Table	Join
customer	ON payment.customer_id (FK) = customer.customer_id (PK)
staff	ON payment.staff_id (FK) = staff.staff_id (PK)
rental	ON payment.rental_id (FK) = rental.rental_id (FK)

### Linked From

None

## 2.6 INVENTORY

Identification to record when a film and a store were updated.

Table: inventory		
Columns	Data Type	Description
inventory_id (PK)	SERIAL	Inventory serial number Primary key
film_id (FK)	SMALLINT	Number assigned to a film Foreign key
store_id (FK)	SMALLINT	Number assigned to a store Foreign key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the inventory record was updated.

### Linked To

Table	Join
film	ON inventory.film_id (FK) = film.film_id (PK)

### Linked From

Table	Join
rental	ON inventory.inventory_id (PK) = rental.inventory_id (FK)
store	ON store.store_id (PK) = inventory.store_id (FK)

## 2.7 STORE

Individual record for a store and who is the store manager.

Table: store		
Columns	Data Type	Description
store_id (PK)	SERIAL	Serial number assigned to a store Primary key
manager_staff_id	SMALLINT	Number assigned to a staff member's manager Foreign key
address_id (FK)	SMALLINT	Store identification number Foreign key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the store record was updated.

### Linked To

Table	Join
staff	ON store.store_id (PK) = staff.store_id (FK)
address	ON address.address_id (PK) = store.address_id (FK)

### Linked From

None

## 2.8 ADDRESS

Individual address with the city's name, postal code and phone number.

Table: address		
Columns	Data Type	Description
address_id (PK)	SERIAL	Address serial identification number Primary key
address	CHARACTER VARYING(50)	Main address
address2	CHARACTER VARYING(50)	Alternative address
district	CHARACTER VARYING(20)	District where the address is located
city_id (FK)	SMALLINT	City where the address is located Foreign key
postal_code	CHARACTER VARYING(10)	Postal code identification for an specific address
phone	CHARACTER VARYING(10)	Phone number for a specific address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the address's record was updated.

### Linked To

Table	Join
city	ON city.city_id (PK) = address.city_id (FK)

### Linked From

Table	Join
customer	ON customer.address_id (FK) = address.address_id (PK)
staff	ON staff.address_id (FK) = address.address_id (PK)
store	ON store.address_id (FK) = address.address_id (PK)

## 2.9 CITY

Names of individual cities.

**Table: city**

Columns	Data Type	Description
city_id (PK)	SERIAL	Serial number of a city Primary key
city	CHARACTER VARYING(50)	City's name
country_id (FK)	SMALLINT	Identification number of a country Foreign key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the city's record was updated.

### Linked To

Table	Join
country	ON city.country_id (FK) = country.country_id (PK)

### Linked From

Table	Join
address	ON city.city_id (PK) = address.city_id (FK)

## 2.10 COUNTRY

Names of individual countries.

**Table: country**

Columns	Data Type	Description
country_id (PK)	SERIAL	Serial number of a country Primary key
country	CHARACTER VARYING(50)	Country's name
last_name	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the country's name record was updated.

### Linked To

None

### Linked From

Table	Join
city	ON city.country_id (FK) = country.country_id (PK)

## 2.11 FILM CATEGORY

Identification of individual categories assigned to a film.

Table: film_category		
Columns	Data Type	Description
film_id (FK)	SMALLINT	Number assigned to a film Foreign key
category_id (FK)	SMALLINT	Number of the film's category Foreign key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the film's category record was updated.

### Linked To

Table	Join
film	ON film_category.film_id (FK) = film.film_id (PK)
category	ON film_category.category_id (FK) = category.category_id (PK)

### Linked From

None

## 2.12 CATEGORY

Names of individual film's category.

**Table: category**

Columns	Data Type	Description
category_id (PK)	SERIAL	Serial number of the film's category Primary key
name	CHARACTER VARYING(25)	Film's category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the category record was updated.

### Linked To

None

### Linked From

Table	Join
film_category	ON film_category.category_id (FK) = category.category_id (PK)



## 2.13 LANGUAGE

Names of individual languages.

**Table: language**

Columns	Data Type	Description
language_id (PK)	SERIAL	Serial number of a film's language Primary key
name	CHARACTER(20)	Film's language
last_name	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the language record was updated.

### Linked To

None

### Linked From

Table	Join
film	ON film.language_id (FK) = language.language_id (PK)

## 2.14 ACTOR

Names of individual film's actors.

**Table: actor**

Columns	Data Type	Description
actor_id (PK)	SERIAL	Serial number assigned to an actor Primary key
first_name	CHARACTER VARYING(45)	Actor's first name
last_name	CHARACTER VARYING(45)	Actor's last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the actor's record was updated.

### Linked To

None

### Linked From

Table	Join
film_actor	ON film_actor.actor_id (FK) = actor.actor_id (PK)

## 2.15 FILM ACTOR

Identification of individual actors assigned to a film.

**Table: film\_actor**

Columns	Data Type	Description
actor_id (FK)	SMALLINT	Actor identification number Foreign key
film_id (FK)	SMALLINT	Number assigned to a film Foreign key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the film's actor record was updated.

### Linked To

Table	Join
actor	ON film_actor.actor_id (FK) = actor.actor_id (PK)
film	ON film_actor.film_id (FK) = film.film_id (PK)

### Linked From

None