

# Rockbuster Data Dictionary

Entity Relationship Diagram



a) Fact tables:

**Rental**

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
rental_id	serial	10	Unique identifier for each rental	Yes
rental_date	timestamp	29	Date when the film was rented	
inventory_id	int4	10	Unique inventory identifier	
customer_id	int2	5	Unique customer identifier	
return_date	timestamp	29	Date when the film was returned	
staff_id	int2	5	Unique staff member identifier	
last_update	timestamp	29	Date and time when the record was last updated	

**Payment**

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
payment_id	serial	10	Unique identifier of payment	Yes
customer_id	int2	5	Unique customer identifier	
staff_id	int2	5	Unique staff memeber identifier	
rental_id	int4	10	Unique identifier for each rental	
amount	numeric	5	Amount paid for the rental	
payment_date	timestamp	29	Date and Time when the payment took place	

b) Dimension tables:

**Customer**

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
customer_id	serial	10	Unique customer identifier	Yes
store_id	int2	5	Unique store identifier	

first_name	varchar	45	Customer's first name	
last_name	varchar	45	Customer's last name	
email	varchar	50	Customer's email	
address_id	int2	5	Customer's address	
activebool	bool	1	Boolean Indicator showing if a customer is active or not	
create_date	date	13	Date when the customer record was created	
last_update	timestamp	29	Date and time when the record was last updated	
active	int4	10	Indicator showing if a customer is active or not	

### Film

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
film_id	serial	10	Unique film identifier	Yes
title	varchar	255	Film title	
description	text	2147483647	Description of the film	
release_year	year	10	Year when the film was released	
language_id	int2	5	Unique identifier for the film language	
rental_duration	int2	5	The duration of the rental	
rental_rate	numeric	4	The amount of money for which the film was rented for	
length	int2	5	The film duration	
replacement_cost	numeric	5	The cost of replacing the film	
rating	mpaa_rating	2147483647	MPAA Rating	
last_update	timestamp	29	The date and time when the record was last updated	
special_features	_text	2147483647	Description of the film special features	
fulltext	tsvector	2147483647	Other comments related to the film	

### Film Actor

COLUMN_NAME	TYPE_NAME	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
actor_id	int2	5	Unique actor identifier	Yes
film_id	int2	5	Unique film identifier	Yes
last_update	timestamp	29	Date and time when the record was last updated	

### Actor

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
actor_id	serial	10	Unique actor identifier	Yes
first_name	varchar	45	Actor's first name	
last_name	varchar	45	Actor's last name	
last_update	timestamp	29	Date and time when the record was last updated	

### Film Category

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
film_id	int2	5	Unique film identifier	Yes
category_id	int2	5	Unique film category identifier	Yes
last_update	timestamp	29	Date and time when the record was last updated	

### Category

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
category_id	serial	10	Unique identifier for the film category	Yes
name	varchar	25	Name of film category	
last_update	timestamp	29	Date and time when the record was last updated	

### Language

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
language_id	serial	10	Unique language identifier	Yes
name	bpchar	20	Language name	
last_update	timestamp	29	Date and time when the record was last updated	

### Inventory

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
inventory_id	serial	10	Unique inventory identifier	Yes
film_id	int2	5	Unique film identifier	
store_id	int2	5	Unique store identifier	
last_update	timestamp	29	Date and time when the record was last updated	

### Staff

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
staff_id	serial	10	Unique staff identifier(employee ID)	Yes
first_name	varchar	45	Employee first name	
last_name	varchar	45	Employee last name	
address_id	int2	5	Unique identifier for employee's address	
email	varchar	50	Employee's email	
store_id	int2	5	Unique store identifier	
active	bool	1	Employee active indicator	
username	varchar	16	Employee's username	
password	varchar	40	Employee's password	
last_update	timestamp	29	Date and time when the record was last updated	
picture	bytea	2147483647	Employee's photo	

### Store

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
store_id	serial	10	Unique store identifier	Yes
manager_staff_id	int2	5	Unique store manager identifier	
address_id	int2	5	Unique address identifier	
last_update	timestamp	29	Date and time when the record was last updated	

### Address

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
address_id	serial	10	Unique address identifier	Yes
address	varchar	50	Address Line 1	
address2	varchar	50	Address Line 2	
district	varchar	20	District in which the store is located	
city_id	int2	5	Unique city identifier	
postal_code	varchar	10	Address postal code	
phone	varchar	20	Phone number	
last_update	timestamp	29	Date and time when the record was last updated	

### City

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
city_id	serial	10	Unique city identifier	Yes
city	varchar	50	Name of the city	
country_id	int2	5	Country in which the city is located	
last_update	timestamp	29	Date and time when the record was last updated	

### Country

COLUMN_NAME	DATA_TYPE	COLUMN_SIZE	DESCRIPTION	UNIQUE KEY
country_id	serial	10	Unique country identifier	Yes
country	varchar	50	Name of the country	
last_update	timestamp	29	Date and time when the record was last updated	