

Rockbuster

Data Dictionary

TABLE OF CONTENTS

FACT TABLES

- 1. Table: payment.....2
- 2. Table: rental.....3

DIMENSION TABLES

- 3. Table: store.....4
- 4. Table: film_actor.....5
- 5. Table: inventory.....6
- 6. Table: film_category.....7
- 7. Table: customer.....8
- 8. Table: staff.....9
- 9. Table: actor.....10
- 10. Table: category.....10
- 11. Table: film.....11
- 12. Table: address.....12
- 13. Table: language.....13
- 14. Table: city.....14
- 15. Table: country.....15

FACT TABLES

1. TABLE: **payment**

Columns	Data Type	Description
payment_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for payments
customer_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for customers
staff_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for staff
rental_id	INTEGER	<i>Foreign Key; Surrogate;</i> Identification column for rental
amount	NUMERIC[5,2]	Cost of the rental
payment_date	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of payment

LINKS TO

Table	Join
customer	payment.customer_id = customer.customer_id
staff	payment.staff_id = staff.staff_id
rental	payment.rental_id = rental.rental_id

UNIQUE KEYS

Primary Key: payment_id

Other Keys: customer_id,
staff_id,
rental_id

2. Table: **rental**

Columns	Data Type	Description
rental_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for rental
rental_date	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of rental
inventory_id	INTEGER	<i>Foreign Key; Surrogate;</i> Identification column for item
customer_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for customers
return_date	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of item return
staff_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for staff
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKS TO

Table	Join
inventory	rental.inventory_id = inventory.inventory_id
customer	rental.customer_id = customer.customer_id
staff	rental.staff_id = staff.staff_id

LINKED FROM

Table	Join
payment	payment.rental_id = rental.rental_id

UNIQUE KEYS

Primary Key: rental_id

Other Keys: inventory_id
customer_id
staff_id

DIMENSION TABLES

3. Table: **store**

Columns	Data Type	Description
store_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for store
manager_staff_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for manager
address_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for store address
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKS TO

Table	Join
staff	store.manager_staff_id = staff.staff_id
address	store.address_id = address.address_id

UNIQUE KEYS

Primary Key: store_id

Other Keys: manager_staff_id
address_id

4. Table: **film_actor**

Columns	Data Type	Description
actor_id	SMALLINT	<i>Primary Key; Surrogate; Foreign Key; Identification column for actors</i>
film_id	SMALLINT	<i>Candidate Key*; Surrogate; Foreign Key; Identification column for films</i>
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKS TO

Table	Join
actor	film_actor.actor_id = actor.actor_id
film	film_actor.film_id = film.film_id

UNIQUE KEYS

Primary Key: actor_id

Other Keys: film_id

5. Table: **inventory**

Columns	Data Type	Description
inventory_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for item
film_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for film
store_id	SMALLINT	<i>Surrogate;</i> Identification column for store
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKS TO

Table	Join
film	inventory.film_id = film.film_id

LINKED FROM

Table	Join
rental	rental.inventory_id = inventory.inventory_id

UNIQUE KEYS

Primary Key: inventory_id

Other Keys: film_id
store_id

6. Table: **film_category**

Columns	Data Type	Description
film_id	SMALLINT	<i>Primary Key; Surrogate;</i> Identification column for film
category_id	SMALLINT	<i>Candidate Key; Surrogate;</i> Identification column for film category
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKS TO

Table	Join
film	film_category.film_id = film.film_id
category	film_category.category_id = category.category_id

UNIQUE KEYS

Primary Key: film_id

Other Keys: category_id

7. Table: **customer**

Columns	Data Type	Description
customer_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for customer
store_id	SMALLINT	<i>Surrogate;</i> Identification column for store
first_name	CHARACTER VARYING[45]	Customer's first name
last_name	CHARACTER VARYING[45]	Customer's last name
email	CHARACTER VARYING [50]	Customer's email
address_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for address
activebool	BOOLEAN	Member status of customer
create_date	DATE	Data profile creation date
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update
active	INTEGER	Member status of customer

LINKS TO

Table	Join
address	customer.address_id = address.address_id

LINKED FROM

Table	Join
payment	payment.customer_id = customer.customer_id
rental	rental.customer_id = customer.customer_id

UNIQUE KEYS

Primary Key: customer_id

Other Keys: store_id
email
address_id

8. Table: **staff**

Columns	Data Type	Description
staff_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for staff
first_name	CHARACTER VARYING[45]	Staff's first name
last_name	CHARACTER VARYING[45]	Staffs last name
address_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for staff's address
email	CHARACTER VARYING[50]	Staff's email
store_id	SMALLINT	<i>Surrogate;</i> Identification column for store
active	BOOLEAN	Employment status of staff member
username	CHARACTER VARYING[16]	Staff's system username
password	CHARACTER VARYING[40]	Staff's system password
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update
picture	BYTEA	Staff's image

LINKS TO

Table	Join
address	staff.address_id = address.address_id

LINKED FROM

Table	Join
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff_id
store	store.staff_id = staff.staff_id

UNIQUE KEYS

Primary Key: staff_id

Other Keys: address_id
email
username
picture

9. Table: **actor**

Columns	Data Type	Description
actor_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for actor
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	Date and time of the last update

LINKED FROM

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

UNIQUE KEYS

Primary Key: actor_id

10. Table: **category**

Columns	Data Type	Description
category_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for film category
name	CHARACTER VARYING[25]	Category type
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKED FROM

Table	Join
film_category	film_category.category_id = category.category_id

UNIQUE KEYS

Primary Key: category_id

11. Table: **film**

Columns	Data Type	Description
film_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for film
title	CHARACTER VARYING[255]	Film title
description	TEXT	Film description
release_year	year	Film's release year
language_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for film's language
rental_duration	SMALLINT	Number of days rented
rental_rate	NUMERIC[4,2]	Price of rental
length	SMALLINT	Film length in minutes
replacement_cost	NUMERIC[5,2]	Film's replacement cost
rating	mpaa_rating	MPAA rating
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update
special_features	TEXT[]	Special features on film media
fulltext	TSVECTOR	Attached search terms

LINKS TO

Table	Join
language	film.language_id = language.language_id

LINKED FROM

Table	Join
film_actor	film_actor.film_id = film.film_id
inventory	inventory.film_id = film.film_id
film_category	film_category.film_id = film.film_id

UNIQUE KEYS

Primary Key: film_id

Other Keys: language_id

12. Table: **addresss**

Columns	Data Type	Description
address_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for address
address	CHARACTER VARYING[50]	Address line 1
address2	CHARACTER VARYING[50]	Address line 2
district	CHARACTER VARYING[20]	District of address
city_id	SMALLINT	<i>Foreign Key; Surrogate;</i> Identification column for city
postal_code	CHARACTER VARYING[10]	ZIP code
phone	CHARACTER VARYING[20]	Phone number
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKS TO

Table	Join
city	address.city_id = city.city_id

LINKED FROM

Table	Join
customer	customer.address_id = address.address_id
staff	staff.address_id = address.address_id
store	store.address_id = address.address_id

UNIQUE KEYS

Primary Key: address_id

Other Keys: city_id

13. Table: **language**

Columns	Data Type	Description
language_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for the film's language
name	CHARACTER[20]	Language
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKED FROM

Table	Join
film	film.language_id = language.language_id

UNIQUE KEYS

Primary Key: language_id

14. Table: **city**

Columns	Data Type	Description
city_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for city
city	CHARACTER VARYING[50]	City name
country_id	SMALLINT	<i>Foreign Key, Surrogate;</i> Identification column for country
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKS TO

Table	Join
country	city.country_id = country.country_id

LINKED FROM

Table	Join
address	address.city_id = city.city_id

UNIQUE KEYS

Primary Key: city_id

15. Table: **country**

Columns	Data Type	Description
country_id	SERIAL	<i>Primary Key; Surrogate;</i> Identification column for country
country	CHARACTER VARYING[50]	Country name
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Date and time of the last update

LINKED FROM

Table	Join
city	city.country_id = country.country_id

UNIQUE KEYS

Primary Key: country_id

Other Keys: country