ROCKBUSTER

DATA DICTIONARY

TABLE OF CONTENTS

. . . .

. . . .

. . . .

. . . .

Database schema diagram (entity-relationship). Table definitions:

film_2
Column	Type
film_id	INTEGER
title	CHARACTER VARYING(255)
description	TEXT
release_year	year

payment
Column	Type
payment_id	SERIAL
customer_id	SMALLINT
staff_id	SMALLINT
rental_id	INTEGER
amount	NUMERIC(5,2)
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE

rental
Column	Type
rental_id	SERIAL
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE
inventory_id	INTEGER
customer_id	SMALLINT
return_date	TIMESTAMP(6) WITHOUT TIME ZONE
staff_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

store
Column	Type
store_id	SERIAL
manager_staff_id	SMALLINT
address_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

staff
Column	Type
staff_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
address_id	SMALLINT
email	CHARACTER VARYING(50)
store_id	SMALLINT
active	BOOLEAN
username	CHARACTER VARYING(16)
password	CHARACTER VARYING(40)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
picture	BYTEA

customer
Column	Type
customer_id	SERIAL
store_id	SMALLINT
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
email	CHARACTER VARYING(50)
address_id	SMALLINT
activebool	BOOLEAN
create_date	DATE
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
active	INTEGER

film_category
Column	Type
film_id	SMALLINT
category_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

inventory
Column	Type
inventory_id	SERIAL
film_id	SMALLINT
store_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film_actor
Column	Type
actor_id	SMALLINT
film_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

actor
Column	Type
actor_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

category
Column	Type
category_id	SERIAL
name	CHARACTER VARYING(25)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film
Column	Type
film_id	SERIAL
title	CHARACTER VARYING(255)
description	TEXT
release_year	year
language_id	SMALLINT
rental_duration	SMALLINT
rental_rate	NUMERIC(4,2)
length	SMALLINT
replacement_cost	NUMERIC(5,2)
rating	mpaa_rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
special_features	TEXT[]
fulltext	TSVECTOR
film_imdb	INTEGER

address
Column	Type
address_id	SERIAL
address	CHARACTER VARYING(50)
address2	CHARACTER VARYING(50)
district	CHARACTER VARYING(20)
city_id	SMALLINT
postal_code	CHARACTER VARYING(10)
phone	CHARACTER VARYING(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

language
Column	Type
language_id	SERIAL
name	CHARACTER(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

city
Column	Type
city_id	SERIAL
city	CHARACTER VARYING(50)
country_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

country
Column	Type
country_id	SERIAL
country	CHARACTER VARYING(50)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

PAYMENT TABLE

FACT TABLE

Primary Key	Columns	Data Type	Description
×	**Payment_id**	SERIAL	Unique key for payment records, and to identify specific transaction.
	Customer_id	SMALLINT	ID to refer to specific Customer
	Staff_id	SMALLINT	ID to refer to specific Staff member
	Rental_id	INTEGER	ID number that refers to a rental transaction
	Amount	NUMERIC (5,2)	The amount needed for payment
	Payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of payment

Connects To:

Table	Foreign Key
Rental	payment.rental_id = rental.rental_id
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id

STORE TABLE

FACT TABLE

Primary Key	Columns	Data Type	Description
×	Store_id	SERIAL	Unique ID for specific store
	Manager_staff_id	SMALLINT	ID for the manager of store
	Address_id	SMALLINT	ID referencing location of store
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects to:

Table	Foreign Key
Staff	manager_staff_id = staff_id
Address	address_ id = address_id

FILM_ACTOR

FACT TABLE

Primary Key	Column	Data Type	Description
×	Actor_id	SMALLINT	Unique ID for a specific actor
	Film_id	SMALLINT	ID for the film in reference to the actor
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects To:

Table	Foreign Key
Actor	film_actor.actor_id = actor.actor_id
Film	film_actor.film_id = film.film_id

FILM_CATEGORY

FACT TABLE

Primary Key	Column	Data Type	Description
×	Film_id	SMALLINT	Unique ID for a film
×	Category_id	SMALLINT	ID for the category the film belongs to
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects to:

Table	Foreign Key
Film	film_category.film_id = film.film_id
Category	film_category.film_id = category.category_id

RENTAL

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Rental_id	SERIAL	Unique ID referring to a rental transaction
	Rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time rental transaction was made
	Inventory_id	INTEGER	ID for referencing physical copy of film
	Customer_id	SMALLINT	Unique ID to refer to specific Customer
	Return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time the film needs to be returned to store
	Staff_id	SMALLINT	ID number to refer to staff member assisting with rental transaction
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects to:

Table	Foreign Key
Inventory	rental.inventory_id = inventory.inventory_id
Customer	rental.customer_id = customer.customer_id
Staff	rental.staff_id = staff.staff_id

Connects from:

Table	By
Payment	payment.rental_id = rental.rental_id

INVENTORY

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Inventory_id	SERIAL	Unique ID for physical copy of the film
	Film_id	SMALLINT	ID for the Film
	Store_id	SMALLINT	ID referencing the store it is located in
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects to:

Table	Foreign Key
Film	Inventory.film_id = film.film_id

Connects from:

Table	By
Rental	rental.inventory_id = inventory.inventory_id

CUSTOMER

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Customer_id	SERIAL	Unique key ID to refer to specific Customer
	Store_id	SMALLINT	ID for the store customer is associated with
	First_name	CHARACTER VARYING (45)	First name of customer
	Last_name	CHARACTER VARYING (45)	Last name of customer
	Email	CHARACTER VARYING (50)	Email address of customer
	Address_id	SMALLINT	Address of customer
	Activebool	BOOLEAN	Checks if customer is active or not
	Create_date	DATE	Date and Time customer_id was created
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified
	active	INTEGER	Checks if customer is active or not

Connects to:

Table	Foreign Key
Address	customer.address_id = address.address_id

Connects from:

Table	By
Rental	rental.customer_id = customer.customer_id

STAFF

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Staff_id	SERIAL	Unique key ID to refer to specific Staff member
	First_name	CHARACTER VARYING (45)	First name of staff member
	Last_name	CHARACTER VARYING (45)	Last name of staff member
	Address_id	SMALLINT	Address of staff member
	Email	CHARACTER VARYING (50)	Email of staff member
	Store_id	SMALLINT	ID of store that Staff member is associated with
	Active	BOOLEAN	Checks to see if Staff member currently works there
	Username	CHARACTER VARYING (16)	Unique username for the staff member
	Password	CHARACTER VARYING (40)	Password set for staff's username
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified
	picture	BYTEA	Picture of Staff member

Connects to:

Table	Foreign Key
Address	staff.address_id = address.address_id

Connects from:

Table	By
Payment	payment.staff_id = staff.staff_id

ACTOR

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Actor_id	SERIAL	Unique ID for the actor
	First_name	CHARACTER VARYING (45)	First name of actor
	Last_name	CHARACTER VARYING (45)	Last name of actor
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects from:

Table	By
Film_actor	film_actor.actor_id = actor.actor_id

FILM

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Film_id	SERIAL	Unique ID for a film
	Title	CHARACTER VARYING (255)	Title of the film
	Description	TEXT	Descriptive text for the film
	Release_year	Year	Release year of the film
	Language_id	SMALLINT	Language the film is in
	Rental_duration	SMALLINT	Duration the film may be rented for
	Rental_rate	NUMERIC (4,2)	The cost of rental
	Length	SMALLINT	Length of the film
	Replacement_cost	NUMERIC (5,2)	Cost to replace physical copy of film if damaged/lost
	Rating	Mpaa_rating	The rating of the film
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified
	Special_features	TEXT []	Text that lists any special feature the film may contain
	fulltext	TSVECTOR	The format the film is presented

Connects from:

Table	By
Inventory	Inventory.film_id = film.film_id

CATEGORY

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Category_id	SERIAL	Unique ID for film categories
×	Name	CHARACTER VARYING (25)	Name of the category
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects from:

Table	By
Category	film_category.category_id = category.category_id

ADDRESS

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Address_id	SERIAL	Unique ID for referencing an address
	Address	CHARACTER VARYING (50)	Text for address
	Address2	CHARACTER VARYING (50)	Text for a second address
	District	CHARACTER VARYING (20)	District the address is in
	City_id	SMALLINT	City the address is located in
	Postal_code	CHARACTER VARYING (10)	Postal zip-code for the address
	Phone	CHARACTER VARYING (20)	Phone number for the address
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects to:

Table	Foreign Key
City	address.city_id = city.city_id

Connects from:

Table	By
Staff	staff.address_id = address.address_id

CITY

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	City_id	SERIAL	Unique ID for a city
	City	CHARACTER VARYING (50)	Name of the city
	Country_id	SMALLINT	ID for country the city is in
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connection to:

Table	Foreign Key
Country	city.country_id = country.country_id

Connects from:

Table	By
Address	address.city_id = city.city_id

COUNTRY

DIMENSION TABLE

Primary Key	Column	Data Type	Description
×	Country_id	SERIAL	Unique ID for a country
	Country	CHARACTER VARYING (50)	Name of the country
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Date and Time table was last updated/modified

Connects from:

Table	By
City	City.country_id = country.country_id