

Data Dictionary

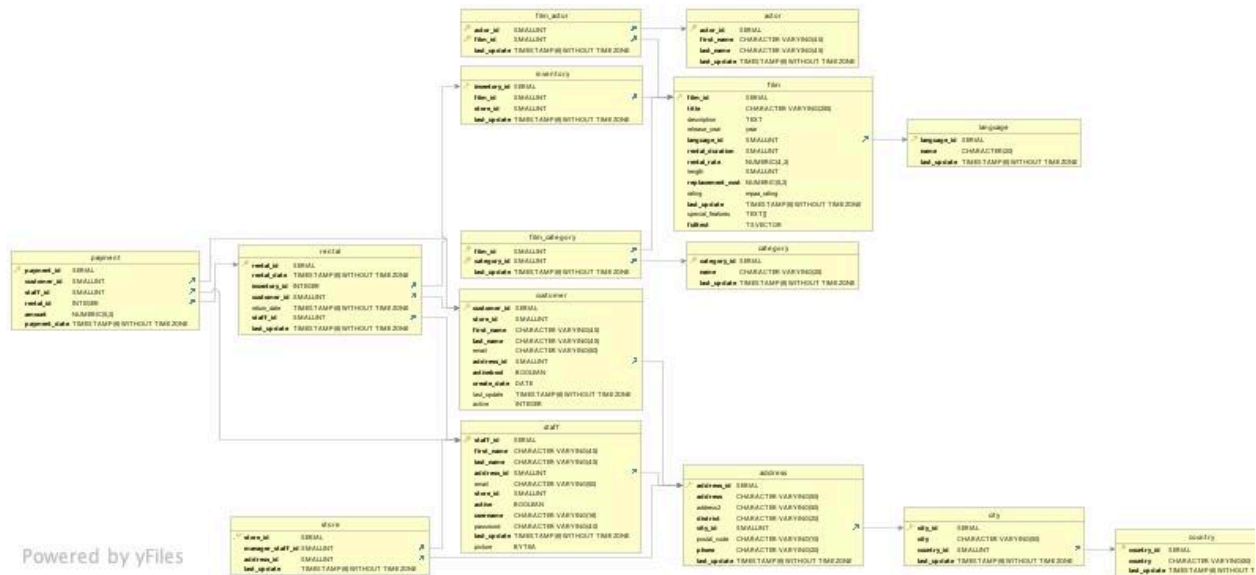
Rockbuster Rental Success Strategy

By: Urvi Patel





Table of Contents

- Entity Relationship Diagram
- FACT TABLE (Payment)
- FACT TABLE (Store)
- FACT TABLE (film_actor).
- DIMENSION TABLE (Rental)
- DIMENSION TABLE (Inventory)
- Dimension TABLE (FILM CATEGORY)
- DIMENSION TABLE (CUSTOMER)
- DIMENSION TABLE (STAFF)
- DIMENSION TABLE (ACTOR)
- DIMENSION TABLE (FILM)
- DIMENSIONS TABLE (CATEGORY)
- DIMENSIONS TABLE (ADDRESS)
- DIMENSIONS TABLE (LANGUAGE)
- DIMENSIONS TABLE (CITY)
- DIMENSIONS TABLE (COUNTRY)

Entity Relationship Diagram



FACT TABLE (Payment)




	Columns	Data Type	Description
	payment_id	Serial	Primary Key (Unique ID integer to show payment of a good or service).
	customer_id	SMALLINT	Foreign Key (Unique small number identifier for each customer)
	staff_id	SMALLINT	Foreign Key (Unique small number identifier for staff of a company)
	rental_id	INTEGER	Foreign Key (integer, unique ID for movies)

	amount	NUMERIC(5,2)	Payment amount of purchase with 5 digits with 2 numbers after the decimal point.
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, stores both date and time values (yyyy-mm-dd) without time zone and time (H:M:S)

Links to

Table	Join
Rental	Payment.rental_id = Rental.rental_id
Customer	Payment.customer_id = Customer.customer_id
Staff	Payment.staff_id = Staff.staff_id

FACT TABLE (Store)



	Columns	Data Type	Description
	store_id	SERIAL	Primary Key (Unique ID integer of a store.)
	manager_staff_id	SMALLINT	Foreign Key (Unique small number identifier for staff of a company)
	address_id	SMALLINT	Foreign Key (Unique small number identifier for store address)
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of rental availability, stores both date and

			time values (yyyy-mm-dd) without time zone and time (H:M:S)
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Links To:

Table	Join
Staff	Store.manager_staff_id = Staff.staff_id
Address	Store.address_id = Address.address_id





FACT TABLE (film_actor)

	Columns	Data Type	Description
	actor_id	SMALLINT	Primary Key/Foreign Key (Unique ID integer of an actor.)
	film_id	SMALLINT	Primary Key/Foreign Key-Unique small number identifier for films
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data stores both date and time values (yyyy-mm-dd) without time zone and time (H:M:S)

Links To:

Table	Join
Actor	Film_Actor.actor_id = Actor.actor_id
Film	Film_Actor.film_id = Film.film_id

DIMENSION TABLE (Rental)

	Columns	Data Type	Description
	rental_id	SERIAL	Primary Key (integer, unique ID for movies when rented)
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, stores both date and time values (yyyy-mm-dd) without time zone and time (H:M:S)
	inventory_id	INTEGER	Foreign Key (integer, unique ID for number of available movies)
	customer_id	SMALLINT	Foreign Key (Unique small number identifier for each customer)
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, stores both date and time values (yyyy-mm-dd) without time zone and time (H:M:S)
	staff_id	SMALLINT	Foreign Key (Unique small number identifier for staff of a company)
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of rental availability, stores both date and time values (yyyy-mm-dd) without time zone and time (H:M:S)

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

Links From:

Table	Join
Payment	Payment.rental_id = Rental.rental_id

DIMENSION TABLE (Inventory)

	Columns	Data Type	Description
	inventory_id	SERIAL	Primary Key (Unique identifier for inventory)
	film_id	SMALLINT	Foreign Key (Unique identifier for each individual film)
	store_id	SMALLINT	Unique identifier or each store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, stores both date and time values (yyyy-mm-dd) without time zone and time (H:M:S)



Links To:

Table	Join
Film	Inventory.film_id = Film.film_id

Links From:

Table	Join
Rental	Rental.inventory_id = Inventory.inventory_id


Dimension TABLE (FILM CATEGORY)


	Columns	Data Type	Description
	film_id	SMALLINT	Primary Key/Foreign Key (Unique identifier for each individual film)
	category_id	SMALLINT	Primary Key/Foreign Key-Unique identifier or each movie category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data stores both date and time values (yyyy-mm-dd) without time zone and time (H:M:S)

Links To:

Table	Join
Film	Film_Category.film_id = Film.film_id
Category	Film_Category.category_id = Category.category_id

DIMENSION TABLE (CUSTOMER)

	Columns	Data Type	Description
	customer_id	SERIAL	Primary Key-unique number to identify

			customer
	store_id	SMALLINT	Small number used to ID Rockbuster store customer was at
	first_name	CHARACTER VARYING (45)	Customer's first name,45 characters max.
	last_name	CHARACTER VARYING (45)	Customer's last name,45 characters max.
	email	CHARACTER VARYING (50)	Customer's email, 50 characters max.
	address_id	SMALLINT	Foreign Key-customer address number
	activebool	BOOLEAN	True or false statement to indicate the customer account status: yes, no, or null.
	create_date	DATE	Date date of when customer account was created
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of when account was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)
	active	INTEGER	Number indicating if customer or how customer has been active.

Links To:



Table	Join
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Address	Customer.address_id = Address.address_id
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Links From:

Table	Join
Payment	Payment.customer_id = Customer.customer_id
Rental	Rental.customer_id = Customer.customer_id

DIMENSION TABLE (STAFF)

	Columns	Data Type	Description
	staff_id	SERIAL	Primary Key-unique ID number of staff
	first_name	CHARACTER VARYING (45)	Staff's first name, 45 characters max.
	last_name	CHARACTER VARYING (45)	Staff's last name, 45 characters max.
	address_id	SMALLINT	Foreign Key-staff address number
	email	CHARACTER VARYING (50)	Staff's email, 50 characters max.
	store_id	SMALLINT	Small number used to ID Rockbuster store staff works at
	active	BOOLEAN	True or false statement to indicate the staff employment status: yes, no, or null.
	username	CHARACTER VARYING (16)	Staff's username for work system, 16 characters max.
	password	CHARACTER VARYING (40)	Staff's password for work system, 40

			characters max.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of when account was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)
	picture	BYTEA	Staff's profile picture. Bytea data type is used to store raw binary data like images.



Links To:

Table	Join
Address	Staff.address_id = Address.address_id

Links From:

Table	Join
Payment	Payment.staff_id = Staff.staff_id
Rental	Rental.staff_id = Staff.staff_id
Store	Store.manager_staff_id = Staff.staff_id

DIMENSION TABLE (ACTOR)



	Columns	Data Type	Description
	actor_id	SERIAL	Primary Key-unique number id for each actor in movies
	first_name	CHARACTER VARYING (45)	Actor's first name,45 characters max.
	last_name	CHARACTER	Actor's last name,45

		VARYING (45)	characters max.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of when profile was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)

Links To:

Table	Join
Actor	Film_Actor.actor_id = Actor.actor_id
Film	Film_Actor.film_id = Film.film_id

DIMENSION TABLE (FILM)

	Columns	Data Type	Description
	film_id	SERIAL	Primary Key-unique number ID for the film
	title	CHARACTER VARYING (255)	Film's first name, 255 characters max.
	description	TEXT	Brief description of the film
	release_year	year	Small integer of 4 characters of date of movie
	language_id	SMALLINT	Foreign key-unique ID to describe the language of the film
	rental_duration	SMALLINT	Small integer showing, possibly, the number of days rented
	rental_rate	NUMERIC(4,2)	Average rental rate of

			film, number with max 4 digits, including and 2 digits after decimal
	length	SMALLINT	Small number of length of movie
	replacement_cost	NUMERIC(5,2)	Replacement cost of film if lost or damaged, number with max 5 digits, including and 2 digits after decimal
	rating	mpaa_rating	The Motion Picture Association film rating system with combination of letters, characters and numbers.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of when film info was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)
	special_features	TEXT[]	Text to add more details about the film
	fulltext	TSVECTOR	Support full text search, which is the activity of searching through a collection of natural-language documents


Links To:

Table	Join
Language	Film.language_id = Language.language_id

Links From:

Table	Join
Inventory	Inventory.film_id = Film.film_id
Film_Actor	Film_Actor.film_id = Film.film_id
Film_Category	Film_Category.film_id = Film.film_id


DIMENSIONS TABLE (CATEGORY)


	Columns	Data Type	Description
	category_id	SERIAL	Primary Key-unique number identifier for the category of a film.
	name	CHARACTER VARYING (25)	Input the name of the category with max 25 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of when category info was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)

Links From:

Table	Join
Film_Category	Film_Category.category_id = Category.category_id

DIMENSIONS TABLE (ADDRESS)

	Columns	Data Type	Description
	address_id	SERIAL	Primary Key-unique number for address

			of the store
	address	CHARACTER VARYING (50)	Address line 1 of the store with max 50 characters
	address2	CHARACTER VARYING (50)	Address line 2 of the store with max 50 characters
	district	CHARACTER VARYING (20)	District of the store with max 20 characters
	city_id	SMALLINT	Foreign Key-City name unique id number
	postal_code	CHARACTER VARYING (10)	Postal code with max 10 characters
	phone	CHARACTER VARYING (20)	Phone number with max 20 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of store when address was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)


Links To:

Table	Join
City	Address.city_id = City.city_id

Links From:

Table	Join
Customer	Customer.address_id = Address.address_id
Staff	Staff.address_id = Address.address_id
Store	Store.address_id = Address.address_id



DIMENSIONS TABLE (LANGUAGE)

	Columns	Data Type	Description
	language_id	SERIAL	Primary Key-unique id for language of a film
	name	CHARACTERS(20)	Name of the language with max 20 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of from when language was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)

Links From:

Table	Join
Film	Film.language_id = Language.language_id

DIMENSIONS TABLE (CITY)

	Columns	Data Type	Description
	city_id	SERIAL	Primary Key-unique ID of city name
	city	CHARACTERS(50)	Name of the city with max 50 characters
	country_id	SMALLINT	Foreign Key-Small integer number of unique ID of the country
	last_update	TIMESTAMP(6) WITHOUT TIME	Temporal data of store when city name

		ZONE	was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)
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Links To:

Table	Join
Country	City.country_id = Country.country_id

Links From:

Table	Join
Address	Address.address_id = City.address_id

DIMENSIONS TABLE (COUNTRY)

	Columns	Data Type	Description
	country_id	SERIAL	Primary Key-unique ID of the country of a store
	country	CHARACTERS(50)	Name of the country with max 50 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data of store when country name was updated, date and time values (yyyy-mm-dd) without time zone and time (H:M:S)

Links From:

Table	Join
City	City.country_id = Country.country_id