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PREFACE

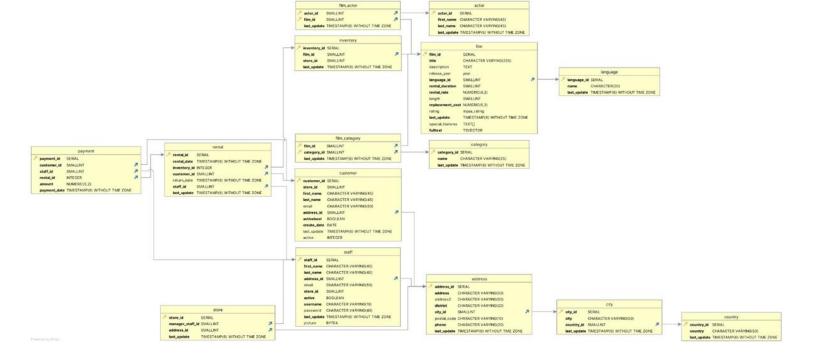
PURPOSE OF THIS DOCUMENT

The purpose of this document is to assist data-literate people working with the Rockbuster database. It serves as a reference material about the structure of the database, including:

- Table names
- Table column names, and description of their contents and datatypes
- Primary and foreign keys
- Relations among tables

STRUCTURE OVERVIEW

The Rockbuster database follows a standard snowflake-schema, having 2 fact tables, **rental** and **payment**, a palette of dimension tables connected to the fact tables, and further dimension tables being connected to the initial ones. For on overview, please see Figure 1. below:



The abbreviations used in this document are "PK" for Primary Key, "FK" for Foreign Key.

FACT TARIFS

PAYMENT

Key Type	Column name	Datatype	description
PK	payment_id	Serial	Unique ID of payments
FK	customer_id	Integer	Reference of customer
FK	staff_id	integer	Reference of staff
FK	rental_id	integer	Reference of rental
	amount	numeric	Amount of money paid
	payment_date	Time/date	Date of the payment

Links To		
Table Link		
customer	Payment.customer_id =customer.customer_id	
staff	Payment.staff_id = staff.staff_id	
rental	Payment.rental_id = rental.rental_id	

Links From		
Table	Link	
N/A	N/A	

RENTAL

Key Type	Column name	Datatype	description
PK	rental_id	serial	Unique ID of rentals
	rental_date	Time/date	Date of the rental
FK	inventory_id	integer	Reference of inventory
FK	customer_id	integer	Reference of customer
	return_date	Time/date	Date of return
FK	staff_id	integer	Reference of staff
	last_update	Time/date	Last time entry was updated

Links To		
Table Link		
customer	rental.customer_id = customer.customer_id	
staff	rental.staff_id = staff.staff_id	
inventory	rental.inventory_id = inventory.inventory_id	

Links From		
Table Link		
payment Payment.rental_id = rental.rental_id		

DIMENSION TABLES

ACTOR

Key Type	Column name	Datatype	description
PK	actor_id	serial	Unique ID of actor
	first_name	varchar	First name of the actor
	last_name	varchar	Last name of the actor
	last_update	Time/Date	Last time entry was updated

Links To			
Table Link			
N/A	N/A		

Links From		
Table Link		
Film_actor	Film_actor.actor_id = actor.actor_id	

ADDRESS

Key Type	Column name	Datatype	description
PK	address_id	serial	Unique ID of address
	address	varchar	Full address
	address2	varchar	Alternate address (optional)
	district	varchar	Name of district
FK	city_id	integer	Reference of city
	postal_code	varchar	Postal code
	phone	varchar	Phone number
	last_update	Time/date	Last time entry was updated

Links To		
Table Link		
city Address.city_id = city.city_id		

Links From		
Table	Link	
store	Store.address_id = address.address_id	
customer	Customer.address_id = address.address_id	
staff	Staff.address_id = address.address_id	

CATEGORY

Key Type	Column name	Datatype	description
PK	address_id	serial	Unique ID of address
	address	varchar	Full address
	address2	varchar	Alternate address (optional)
	district	varchar	Name of district

Links To		
Table Link		
N/A	N/A	

Links From		
Table Link		
Film_category	Film_category.category_id = category.category_id	

CITY

Key Type	Column name	Datatype	description
PK	city_id	serial	Unique ID of city
	city	varchar	Name of the city
FK	country_id	integer	Reference of country
	last_update	Time/date	Last time entry was updated

Links To		
Table Link		
country	City.country_id = country.country_id	

Links From			
Table Link			
address	Address.city_id = city.city_id		

COUNTRY

Key Type	Column name	Datatype	description
PK	country_id	serial	Unique ID of country
	country	varchar	Name of the country
	last_update	timestamp	Last time entry was updated

Links To		
Table	Link	
N/A	N/A	

Links From		
Table Link		
city	Country.country_id = city.country_id	

CUSTOMER

Key Type	Column name	Datatype	description
PK	customer_id	serial	Unique ID of customer
FK	store_id	integer	Reference of store
	first_name	varchar	Customer's first name
	last_name	varchar	Customer's second name
	email	varchar	Customer's email address
FK	address_id	integer	Reference of address
	activebool	boolean	If customer is active or not
	create_date	date	Date of creation
	last_update	Time/date	Last time entry was updated
	active	integer	If user is active or not (1 or 0)

Links To		
Table Link		
address	Customer.address_id = address.address_id	

Links From	
Table Link	
Payment	Payment.customer_id = customer.customer_id
rental Rental.customer_id = customer.customer_id	

FILM

Key Type	Column name	Datatype	description
PK	film_id	serial	Unique ID of film
	title	varchar	Film title
	description	text	Films description
	release_year	year	Films release year
FK	language_id	integer	Reference of language
	rental_duration	integer	For how many days it was rented
	rental_rate	numeric	Rental cost
	length	integer	Duration of film (mins)
	replacement_cost	numeric	how much does a replacement copy
			cost
	rating	mpaa_rating (Varchar)	Age restriction
	last_update	Time/date	Last time entry was updated
	special_features	_text (object?)	Extra features aside from the film itself
	fulltext	Tsvector (key-value pairs)	keywords/preferences

Links To		
Table Link		
language	Film.language_id =language.language_id	

Links From		
Table Link		
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	

FILM_ACTOR

Key Type	Column name	Datatype	description
FK	actor_id	actor_id	reference of actor
FK	film_id	film_id	reference of film
	last_update	last_update	Last time entry was updated

Links To		
Table Link		
actor	Film_actor.actor_id = actor.actor_id	
film Film_actor.film_id = film.film_id		

Links From		
Table Link		
N/A	N/A	

FILM_CATEGORY

Key Type	Column name	Datatype	description
FK	film_id	Integer	reference of film
FK	category_id	Integer	reference of category
	last_update	Time/date	Last time entry was updated

Links To		
Table Link		
category	Film_category.category_id = category.category_id	
film	Film_category.film_id = film.film_id	

Links From		
Table Link		
N/A	N/A	

INVENTORY

Key Type	Column name	Datatype	description
PK	inventory_id	serial	Unique ID of inventory
FK	film_id	integer	Reference of film
FK	store_id	Integer	Reference of store
	last_update	Time/date	Last time entry was updated

Links To		
Table Link		
store	Inventory.store_id = store.store_id	
film Inventory.film_id = fil.film_id		

Links From	
Table	Link
rental	Rental.inventory_id = inventor.inventory_id

LANGUAGE

Key Type	Column name	Datatype	description
PK	language_id	serial	Unique ID of language
	name	Blank padded char	Name of the language
	last_update	Time/date	Last time entry was updated

Links To		
Table	Link	
N/A	N/A	

Links From		
Table	Link	
film	Film.language_id = language.language_id	

STAFF

Key Type	Column name	Datatype	description
PK	staff_id	serial	Unique ID of staff
	first_name	varchar	First name of the person
	last_name	varchar	Last name of the person
FK	address_id	integer	Reference of address
	email	varchar	Email address
FK	store_id	integer	Reference of store
	active	boolean	If staff is active now
	username	varchar	Username of the person
	password	varchar	Password of the person
	last_update	Time/date	Last time entry was updated
	picture	Binary string	image stored in binary form of the
			person

Links To		
Table	Link	
store	Staff.store_id = store.store_id	
address	Staff.address_id = address.address_id	

Links From		
Table Link		
Payment	Payment.staff_id = staff.staff_id	
Rental	Rental.staff_id = staff.staff_id	
Store	Store.manager_staff_id = staff.staff_id	

STORE

Key Type	Column name	Datatype	description
PK	store_id	serial	Primary key of store
FK	manager_staff_id	integer	Reference of staff
FK	address_id	integer	Foreign key of address
	last_update	timestamp	Last time entry was updated

Links To		
Table	Link	
staff	Store.manager_staff_id = staff.staff_id	
address	store.address_id = address.address_id	

Links From		
Table	Link	
store	Staff.store_id = store.store_id	