ROCKBUSTER STEALTH LLC

DATA DICTIONARY

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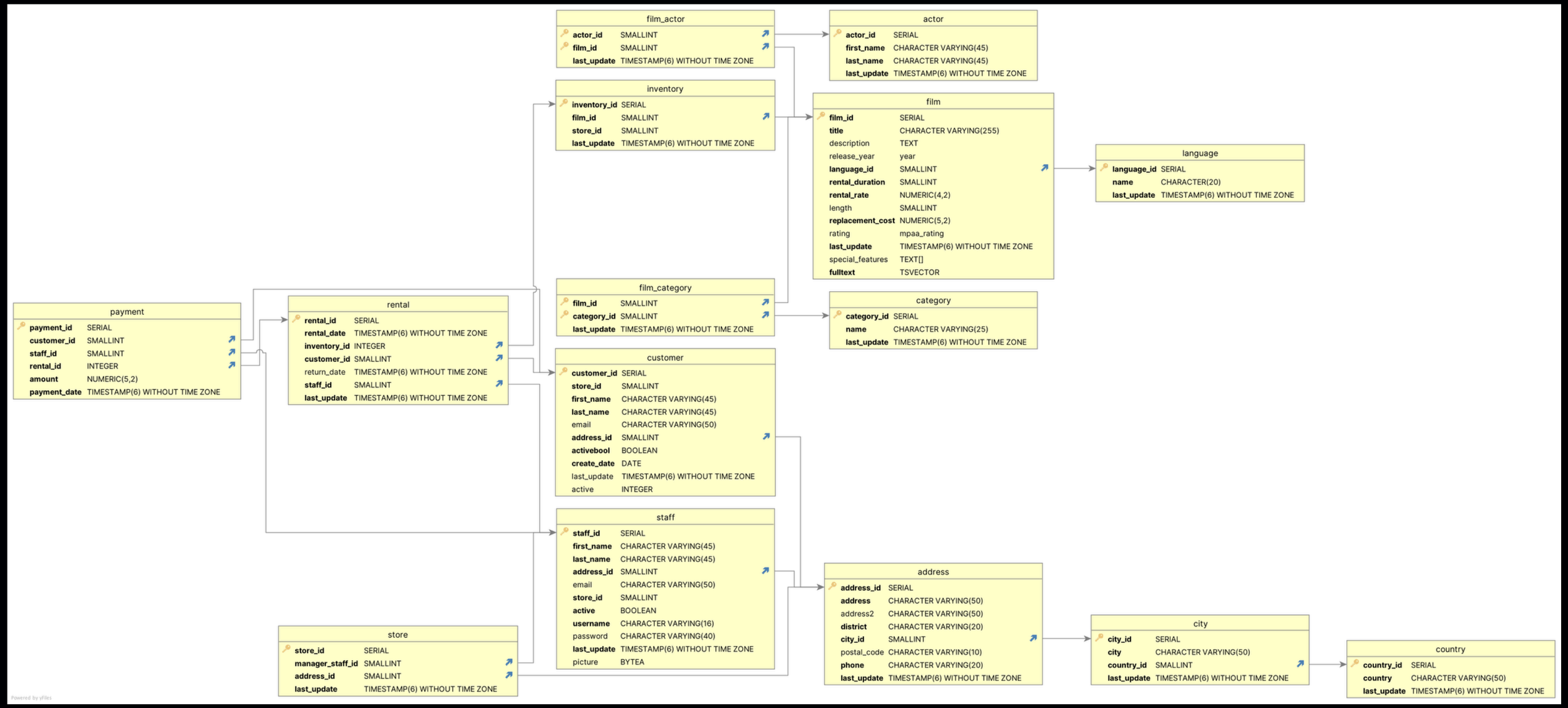
ERD - ROCKBUSTER DATABASE



FACT TABLE

PAYMENT

Key	Columns	Data type	Description	Link
PK	Payment_id	SERIAL	unique number for identifying payment	
FK	Customer_id	SMALLINT	unique number for identifying customer	customer
FK	Staff_id	SMALLINT	unique number for identifying staff	staff
FK	Rental_id	INTEGER	unique number for identifying rental movie	rental
	amount	NUMERIC(5,2)	Number with max 5 digits including 2 decimals i.e 123.45	
	Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of payment.	

DIMENSION TABLES

RENTAL

Key	Columns	Data type	Description	Link
PK	Rental_id	SERIAL	unique number for identifying rent a movie	payment
	Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of rent.	
FK	Inventory_id	INTEGER	4-byte integer, unique id for the inventory department to identify the rental movie.	inventory
FK	Customer_id	SMALLINT	2-byte integer, unique id for customer.	customer
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of return of movie.	
FK	Staff_id	SMALLINT	unique id for staff	staff
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	

STORE

Key	Columns	Data type	Description	Link
PK	Store_id	SERIAL	Primary key, unique number for identifying store	
FK	Manager_staff_id	SMALLINT	Foreign key, 2-byte integer, unique id for store manager	staff
FK	Address_id	SMALLINT	Foreign key, 2-byte integer, unique id for address of store	address
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	

DIMENSION TABLES

FILM_ACTOR

Key	Columns	Data type	Description	Link
PK, FK	Actor_id	SMALLINT	Primary and foreign key, unique number for identifying movie actor	actor
PK, FK	Film_id	SMALLINT	Primary and foreign key, unique id for a movie	film
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	

INVENTORY

Key	Columns	Data type	Description	Link
PK	Inventory_id	SERIAL	Primary key, 4-byte integer, unique number for identifying the rental movie.	rental
FK	Film_id	SMALLINT	Foreign key, unique id for a movie	film
	Store_id	SMALLINT	unique id for store	
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	

FILM_CATEGORY

Key	Columns	Data type	Description	Link
PK, FK	Film_id	SMALLINT	Primary key and Foreign key, unique number for identifying a movie	film
PK, FK	Category_id	SMALLINT	Primary key and foreign key, unique id for category of movies	category
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	

DIMENSION TABLES

CUSTOMER

Key	Columns	Data type	Description	Link
PK	Customer_id	SERIAL	Primary key, unique number for identifying customer.	rental, payment
	Store_id	SMALLINT	2-byte integer, unique id for store	
	First_name	CHARACTER VARYING(45)	First name of customer, max. 45 characters long	
	Last_name	CHARACTER VARYING(45)	Last name of customer, max 45 characters long	
	Email	CHARACTER VARYING(50)	Email of customer, max 50 characters long	
FK	Address_id	SMALLINT	Foreign key, unique address id of customer	address
	Activebool	BOOLEAN	True or false statement of active or not-active account of customer.	
	Create_date	DATE	Creation date of customer account. Temporal data, DATE in format (YYYY-MM-DD)	
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	
	active	INTEGER	Unique id for rent a movie, 4-byte integer. Active or not active customer account status.	

DIMENSION TABLES

STAFF

Key	Columns	Data type	Description	Link
PK	Staff_id	SERIAL	Primary key, unique number for identifying staff	rental, payment, store
	First_name	CHARACTER VARYING(45)	First name of staff member, max 45 characters long	
	Last_name	CHARACTER VARYING(45)	Last name of staff member, max 45 characters long	
FK	Address_id	SMALLINT	Foreign key, unique address id of staff member	address
	Email	CHARACTER VARYING(50)	Email address of staff member, max 50 characters long.	
	Store_id	SMALLINT	2-byte integer, unique id for store	
	Active	BOOLEAN	True or false statement of active or not-active staff member.	
	Username	CHARACTER VARYING(16)	Username for access online internal account. Max 16 characters long.	
	Password	CHARACTER VARYING(40)	Password for online internal account. Max 40 characters long.	
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	
	Picture	BYTEA	binary data type, max 1GB. Store picture of staff member.	

ACTOR

Key	Columns	Data type	Description	Link
PK	Actor_id	SERIAL	Primary key, unique number for identifying actor	film_actor
	First_name	CHARACTER VARYING(45)	First name of actor, max 45 characters long	
	Last_name	CHARACTER VARYING(45)	First name of actor, max 45 characters long	
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	

DIMENSION TABLES

FILM

Key	Columns	Data type	Description	Link
PK	Fim_id	SEARIAL	Primary key, unique number for identifying movie	film_actor, inventory, film_category
	Title	CHARACTER VARYING(255)	Title of movie. Max 255 characters long	
	Description	TEXT	Description of the movie like the plot etc. character string with unlimited length	
	Release_year	YEAR	Year of release of movie.	
FK	Language_id	SMALLINT	Foreign key, 2-byte integer. Unique id of the audio language in the movie.	language
	Rental_duration	SMALLINT	2-byte integer. Duration of how long the movie is rented for.	
	Rental_rate	NUMERIC(4,2)	Number with max 4 digits with 2 decimals. Rental price of the movie	
	Length	SMALLINT	2-byte integer. Length of the movie in minutes	
	Replacement_cost	NUMERIC(5,2)	Number with max 5 digits with 2 decimals. Replacement cost in case of customer is not returning the movie.	
	Rating	MPAA_RATING	Motion Picture Association of America rating. Age rating of the movie.	
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	
	Special_features	TEXT[]	Special features included in the rental movie. Something like “making of” or behind the scenes. character string with unlimited length	
	Fulltext	TSVECTOR	The tsvector type represents a document in a form optimized for text search.	

CATEGORY

Key	Columns	Data type	Description	Link
PK	Category_id	SERIAL	Primary key. Unique number for movie category	film_category
	Name	CHARACTER VARYING(25)	Name of the category. Max 25 characters.	
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	

DIMENSION TABLES

LANGUAGE

Key	Columns	Data type	Description	Link
PK	Language_id	SERIAL	Primary key. Unique number for identifying the language	film
	Name	CHARACTER(20)	Name of the language. Max 20 characters long.	
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, DATE in format (YYYY-MM-DD) and TIME in format (HH:MM:SS) with 6 digit second precision. Without time zone. Date of last updated of data set.	

CITY

Key	Columns	Data type	Description	Link
PK	city_id	SERIAL	Integer value. Unique identifier for city. It is used to identify the city in the database, from the Stores, Customers and Staff.	address
	city	Caracter varying (50)	City name. Text with a maximum length of 50 characters	
FK	country_id	SMALLINT	Small integer. Unique identification code for country. It is used to identify the country in the database, from the Stores, Customers and Staff	country
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

COUNTRY

Key	Columns	Data type	Description	Link
PK	country_id	SERIAL	Integer value. Unique identifier for country. It is used to identify the city in the database, from the Stores, Customers and Staff.	city
	country	Caracter varying (50)	Country name. Text with a maximum length of 50 characters	
	last_update	Timestamp(6) without time zone	Date and time of the last update. Stores both date and time values, without timezone-aware (yyyy-mm-dd hh:mm:ss.ssssss)	

THANKS

Tools used:

Tableau, PostgreSQL and Excel

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Visualizations

Tableau link **HERE**

Data Analyst

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