ROCKBUSTER STEALTH

Data Dictionary
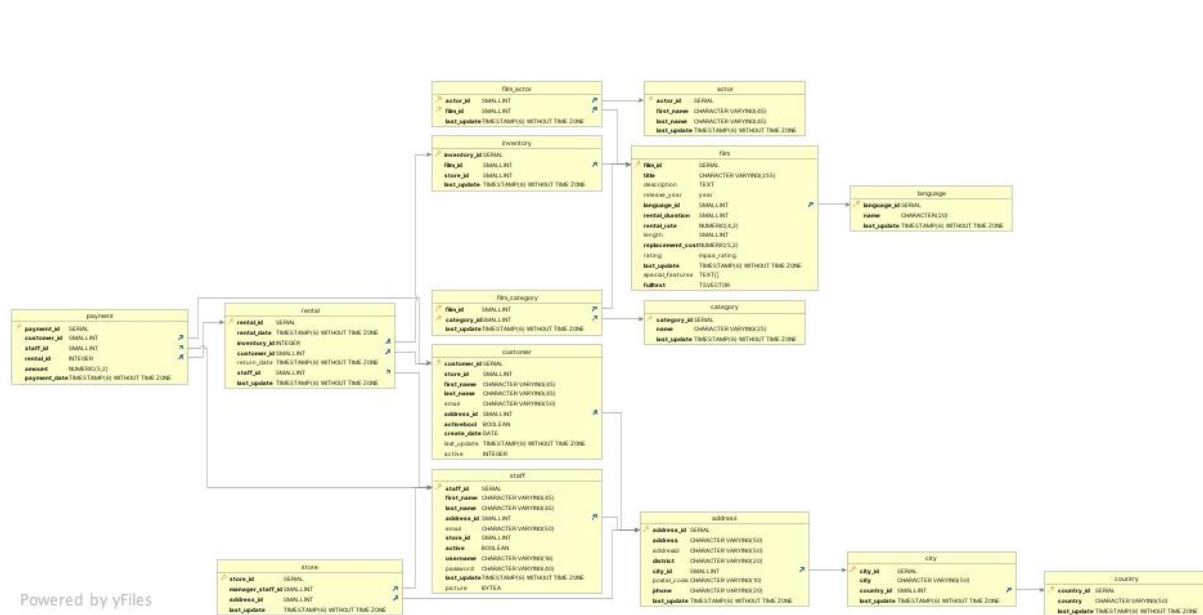23-09-2023

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1. Context

The database dictionary comprises 2 fact table and 13 dimension tables. The ERD on pg 4 was generated using DBVisualizer.

The full databases can be accessed via **this link**

2. Legend

🔑	**Primary Key**
➤	**Foreign Key**

3. Entity Relationship Diagram

4. Fact Tables
4.1. Payment Table

	PAYMENT TABLE		
	Columns	**Data Type**	**Description**
🔑	Payment_id	SERIAL	Unique payment identifier
▶	Customer_id	SMALLINT	Unique customer identifier
▶	Staff_id	SMALLINT	Unique staff identifier
▶	Rental_id	INTEGER	Unique rental code identifier
	Amount	NUMERIC (5,2)	Amount paid
	Payment_date	TIMESTAMP(S) WITHOUT TIME ZONE	Date that payment was made

LINKS TO	
TABLE NAME	**JOIN**
Customer_id	Payment.customer_id = customer.customer_id
Staff_id	Payment.staff_id = staff.staff_id
Rental_id	Payment.rental_id=rental.rental_id

LINKS FROM	
TABLE NAME	**JOIN**
N/A	N/A

4.2. Rental Table

	RENTAL TABLE		
🔑	Rental_id	SERIAL	Unique rental identifier
	Rental_date	TIMESTAMP(S) WITHOUT TIME ZONE	Date that rental was redeemed
➤	Inventory_id	INTEGER	Unique inventory identifier
➤	Customer_id	SMALLINT	Unique customer identifier
	Return_date	TIMESTAMP(S) WITHOUT TIME ZONE	Date that rental was returned
➤	Staff_id	SMALLINT	Unique staff identifier
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	**JOIN**
Inventory_id	Rental.inventory_id = inventory.inventory_id
Customer_id	Rental.customer_id = customer.customer_id
Staff_id	Rental.staff_id = staff.staff_id

LINKS FROM	
TABLE NAME	**JOIN**
Payment	Rental.rental_id = payment.rental_id

5. Dimension Table
5.1. Store Table

	STORE TABLE		
	Columns	**Data Type**	**Description**
🔑	Store_id	SERIAL	Unique store identifier
➤	Manager_Staff_id	SMALLINT	Unique manager identifier
➤	Address_id	SMALLINT	Address of store
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	**JOIN**
staff	Store.manager_staff_id = staff_staff_id
address	Store.address_id = address.address_id

LINKS FROM	
TABLE NAME	**JOIN**
N/A	N/A

5.2. Inventory Table

	INVENTORY TABLE		
🔑	Inventory_id	SERIAL	Unique inventory identifier
➤	Film_id	SMALLINT	Unique film identifier
	Store_id	SMALLINT	Unique store identifier
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	**JOIN**
film	Inventory.film_id = film.film_id

LINKS FROM	
TABLE NAME	**JOIN**
rental	Inventory.inventory_id = rental.inventory_id

5.3. Film Category Table

	FILM CATEGORY TABLE		
🔑 ➤	Film_id	SMALLINT	Unique film identifier
🔑 ➤	Category_id	SMALLINT	Unique category identifier
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	JOIN
film	Film_category.film_id = film.film_id
category	Film_category.category_id = category.category_id

LINKS FROM	
TABLE NAME	JOIN
N/A	N/A

5.4. Customer Table

	CUSTOMER TABLE		
🔑	Customer _id	SERIAL	Unique customer identifier
	Store_id	SMALLINT	Unique store identifier
	First_name	CHARVAR	First name of customer
	Last_name	CHARVAR	Last name of customer
	email	CHARVAR	Email address
▸	Address_id	SMALLINT	Customer address
	activebool	BOOLEAN	Categorises customer as active – true; not active = false
	Create_date	DATE	Date profile created
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated
	active	INTEGER	Code for the customer for active usage

LINKS TO	
TABLE NAME	**JOIN**
address	Customer.address_id = address.address_id

LINKS FROM	
TABLE NAME	**JOIN**
Payment	Customer.customer_id = payment.customer_id
Rental	Customer.customer_id = rental.customer_id

5.5. Staff Table

		STAFF TABLE		
🔑	Staff_id	SERIAL	Unique staff identifier
	First_name	CHARVAR	First name of staff member
	Last_name	CHARVAR	Last name of staff member
➤	Address_id	SMALLINT	Address of staff member
	email	CHARVAR	Email address
	Store_id	SMALLINT	Unique store identifier
	active	BOOLEAN	Categorises staff member as active – true; not active = false
	username	CHARVAR	Unique staff member username
	password	CHARVAR	Unique staff member password
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated
	picture	BYTEA	Staff picture

LINKS TO	
TABLE NAME	**JOIN**
address	staff.address_id = address.address_id

LINKS FROM	
TABLE NAME	**JOIN**
Payment	Staff.staff_id = payment.staff_id

Rental	Staff.staff_id = rental.staff_id
Store	Staff.staff_id = store.staff_id

5.6.   Actor Table

	ACTOR TABLE		
🔑	Actor_id	SERIAL	Unique actor identifier
	First_name	CHARVAR	First name of actor
	Last_name	CHARVAR	Last name of actor
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	JOIN
N/A	N/A

LINKS FROM	
TABLE NAME	JOIN
Film_actor	Actor.actor_id = film_actor.actor_id

5.7. Film Table

	FILM TABLE		
🔑	Film_id	SERIAL	Unique film identifier
	Title	CHARVAR	Film title
	Description	TEXT	Film description
	Release_year	YEAR	When film was released
➤	Language_id	SMALLINT	Language of film
	Rental_duration	SMALLINT	Length of rental
	Rental_rate	NUMERIC	How often the film is rented
	Length	SMALLINT	Length of film
	Replacement_cost	NUMERIC	Cost to replace rental
	Rating	MPAA_RATING	Age restriction
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated
	Special_features	TEXT	Special features videos such as trailers related to rental
	fulltext	TVSECTOR	Information used for searching

LINKS TO	
TABLE NAME	**JOIN**
language	Film.language_id = language.language_id

LINKS FROM	
TABLE NAME	**JOIN**
Film_actor	Film.film_id = film_actor.film_id
Film_category	Film.film_id = film_category.film_id
inventory	Film.film_id = inventory.film_id

5.8. Category Table

	CATEGORY TABLE		
🔑	Category_id	SERIAL	Unique category identifier
	name	CHARVAR	Name of category
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	JOIN
N/A	N/A

LINKS FROM	
TABLE NAME	JOIN
Film_category	Category.category_id = film_category.category_id

5.9.   Address Table

	ADDRESS TABLE		
🔑	Address_id	SERIAL	Addresses of staff/customer/store
	Address	CHARVAR	Primary address
	Address 2	CHARVAR	Secondary address
	District	CHARVAR	Unique district identifier
➤	City_id	SMALLINT	Unique city identifier
	Postal_code	CHARVAR	Unique postal code
	Phone	CHARVAR	Phone contact number
	Last update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	**JOIN**
city	Address.city_id = city.city_id

LINKS FROM	
TABLE NAME	**JOIN**
customer	Address.address_id = customer.address_id
staff	Address.address_id = staff.address_id
store	Address.address_id = store.address_id

5.10. Language Table

		LANGUAGE TABLE		
🔑	Language_id	SERIAL	Unique language identifier	
	name	CHARACTER	Name of language	
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated	

LINKS TO	
TABLE NAME	**JOIN**
N/A	N/A

LINKS FROM	
TABLE NAME	**JOIN**
film	Language.language_id = film.language_id

5.11. City Table

		CITY TABLE	
🔑	City_id	SERIAL	Unique city identifier
	City	CHARVAR	Name of city
➤	Country_id	SMALLINT	Unique country identifier
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	JOIN
country	City.country_id = country.country_id

LINKS FROM	
TABLE NAME	JOIN
address	City.city_id = address.city_id

5.12. Country Table

	COUNTRY		
🔑	Country_id	SERIAL	Unique country identifier
	Country	CHARVAR	Country name
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	When information was last updated

LINKS TO	
TABLE NAME	**JOIN**
N/A	N/A

LINKS FROM	
TABLE NAME	**JOIN**
city	Country.country_id = city.country_id