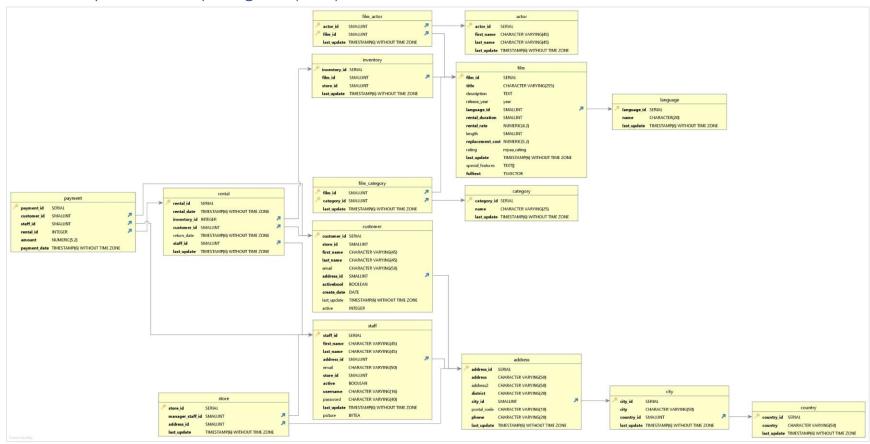
ROCKBUSTER STEALTH DATA ANALYSIS PROJECT FOR COMPANY STRATEGY IN 2020

Data Dictionary

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1. Entity Relationship Diagram (ERD)



2. Fact Tables

2.1 Rental Table

Key	Column	Data Type	Description
Primary Key	rental_id	SERIAL	Primary key of rental table
	rental_date	TIMESTAMP(6) WITHOUT	Date and time when the film rental
		TIME ZONE	starts
Foreign Key	inventory_id	INTEGER	Foreign key to inventory table
Foreign Key	customer_id	SMALLINT	Foreign key to customer table
	return_date	TIMESTAMP(6) WITHOUT	Date and time when the film is
		TIME ZONE	returned
Foreign Key	staff_id	SMALLINT	Foreign key to staff table
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

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

Linked from:

Table	Join
Payment	Rental.rental_id = Payment.rental_id

2.2 Payment Table

Key	Column	Data Type	Description
Primary Key	payment_id	SERIAL	Primary key of payment table
Foreign Key	customer_id	SMALLINT	Foreign key to customer table
Foreign Key	staff_id	SMALLINT	Foreign key to staff table
Foreign Key	rental_id	INTEGER	Foreign key to rental table
	amount	NUMERIC(5,2)	Amount paid by customer
	payment_date	TIMESTAMP(6) WITHOUT	Date and time of the payment made
		TIME ZONE	

Links to:

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

Linked from:

Table	Join
N/A	N/A

3. Dimension Tables

3.1 Film Table

Key	Column	Data Type	Description
Primary Key	film_id	SERIAL	Primary key of film table
	title	CHARACTER	Title of the film
		VARYING(255)	
	description	TEXT	Description of the film
	release_year	year	Release year of the film
Foreign Key	language_id	SMALLINT	Foreign key to language table
	rental_duration	SMALLINT	Rated rental duration of the film
	rental_rate	NUMERIC(4,2)	Pricing of the rated rental duration
	length	SMALLINT	The length of the film
	replacement_cost	NUMERIC(5,2)	Cost of replacement if the film is not returned
	rating	mpaa_rating	Rating of the film by Motion Picture Association of America (MPAA) – G/PG/PG-13/R/NC-17
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the table was last updated
	special_features	TEXT[]	Special features of the film – Commentaries/Trailers/Behind the Scenes/Deleted Scenes
	fulltext	TSVECTOR	Index for film

Links to:

Table	Join
Language	Film.language_id = Language.language_id

Table	Join
Inventory	Film.film_id = Inventory_film.id
Film_category	Film.film_id = Film_category.film_id
Film_actor	Film.film_id = Film_actor.film_id

3.2 Inventory Table

Key	Column	Data Type	Description
Primary Key	inventory_id	SERIAL	Primary key of inventory table
Foreign Key	film_id	SMALLINT	Foreign key to film table
Foreign Key	store_id	SMALLINT	Foreign key to store table
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

Table	Join
Film	Inventory.film_id = Film.film_id
Store	Inventory.store_id = Store.store_id

Linked from:

Table	Join
Rental	Inventory.inventory_id = Rental.inventory_id

3.3 Film_category Table

Key	Column	Data Type	Description
Foreign Key	film_id	SMALLINT	Foreign key to film table
Foreign Key	category_id	SMALLINT	Foreign key to category table
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

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

Table	Join
N/A	N//A

3.4 Category Table

Key	Column	Data Type	Description
Primary Key	category_id	SERIAL	Primary key of category table
	name	CHARACTER VARYING(25)	Name of the category
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

Table	Join
N/A	N/A

Linked from:

Table	Join
Film_category	Category.category_id = Film_category.category_id

3.5 Language Table

Key	Column	Data Type	Description
Primary Key	language_id	SERIAL	Primary key of language table
	name	CHARACTER(20)	Name of the language
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

Table	Join
N/A	N/A

Linked from:

Table	Join
Film	Language.language_id = Film.language_id

3.6 Film_actor Table

Key	Column	Data Type	Description
Foreign Key	actor_id	SMALLINT	Foreign key to actor table
Foreign Key	film_id	SMALLINT	Foreign key to film table
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

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

Linked from:

Table	Join
N/A	N/A

3.7 Actor Table

Key	Column	Data Type	Description
Primary Key	actor_id	SERIAL	Primary key of actor table
	first_name	CHARACTER VARYING(45)	First name of the actor
	last_name	CHARACTER VARYING(45)	Last name of the actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time when the table was last updated

Links to:

Table	Join
N/A	N/A

Linked from:

Table	Join
Film_actor	Actor.actor_id = Film_actor.actor_id

3.8 Customer Table

Key	Column	Data Type	Description
Primary Key	customer_id	SERIAL	Primary key of customer table
Foreign Key	store_id	SMALLINT	Foreign key to store table
	first_name	CHARACTER VARYING(45)	First name of the customer
	last_name	CHARACTER VARYING(45)	Last name of the customer
	email	CHARACTER VARYING(50)	Email address of the customer
Foreign Key	address_id	SMALLINT	Foreign key to address table
	activebool	BOOLEAN	True = active; False = non-active
	create_date	DATE	Date when the customer signs up
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated
	active	INTEGER	An integer regarding the customer's
			activeness

Links to:

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

Linked from:

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

3.9 Staff Table

Key	Column	Data Type	Description
Primary Key	staff_id	SERIAL	Primary key of staff table
	first_name	CHARACTER VARYING(45)	First name of the staff
	last_name	CHARACTER VARYING(45)	Last name of the staff
Foreign Key	address_id	SMALLINT	Foreign key to address table
	email	CHARACTER VARYING(50)	Email address of the staff
Foreign Key	store_id	SMALLINT	Foreign key to store table
	active	BOOLEAN	True = active; False = non-active
	username	CHARACTER VARYING(16)	Username of the staff
	password	CHARACTER VARYING(40)	Password of the staff
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated
	picture	BYTEA	Picture of the staff

Links to:

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

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

3.10 Store Table

Key	Column	Data Type	Description
Primary Key	store_id	SERIAL	Primary key of store table
Foreign Key	manager_staff_id	SMALLINT	Foreign key to staff table
Foreign Key	address_id	SMALLINT	Foreign key to address table
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

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

Linked from:

Table	Join
Inventory	Store.store_id = Inventory.store_id
Customer	Store.store_id = Customer.store_id
Staff	Store.store_id = Staff.store_id

3.11 Address Table

Key	Column	Data Type	Description
Primary Key	address_id	SERIAL	Primary key of address table
	address	CHARACTER VARYING(50)	1 st line of the address
	address2	CHARACTER VARYING(50)	2 nd line of the address
	district	CHARACTER VARYING(20)	District of the address
Foreign Key	city_id	SMALLINT	Foreign key to city table
	postal_code	CHARACTER VARYING(10)	Postal code of the address
	phone	CHARACTER VARYING(20)	Phone contact for the address
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

Table	Join
City	Address.city_id = City.city_id

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

3.12 City Table

Key	Column	Data Type	Description
Primary Key	city_id	SERIAL	Primary key of city table
	city	CHARACTER VARYING(50)	City name
Foreign Key	country_id	SMALLINT	Foreign key to country table
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

Table	Join
Country	City.country_id = Country.country_id

Linked from:

Table	Join
Address	City.city_id = Address.city_id

3.13 Country Table

Key	Column	Data Type	Description
Primary Key	country_id	SERIAL	Primary key of country table
	country	CHARACTER VARYING(50)	Country name
	last_update	TIMESTAMP(6) WITHOUT	Date and time when the table was last
		TIME ZONE	updated

Links to:

Table	Join	
N/A	N/A	

Table	Join
City	Country.country_id = City.country_id