

# **DATA DICTIONARY**

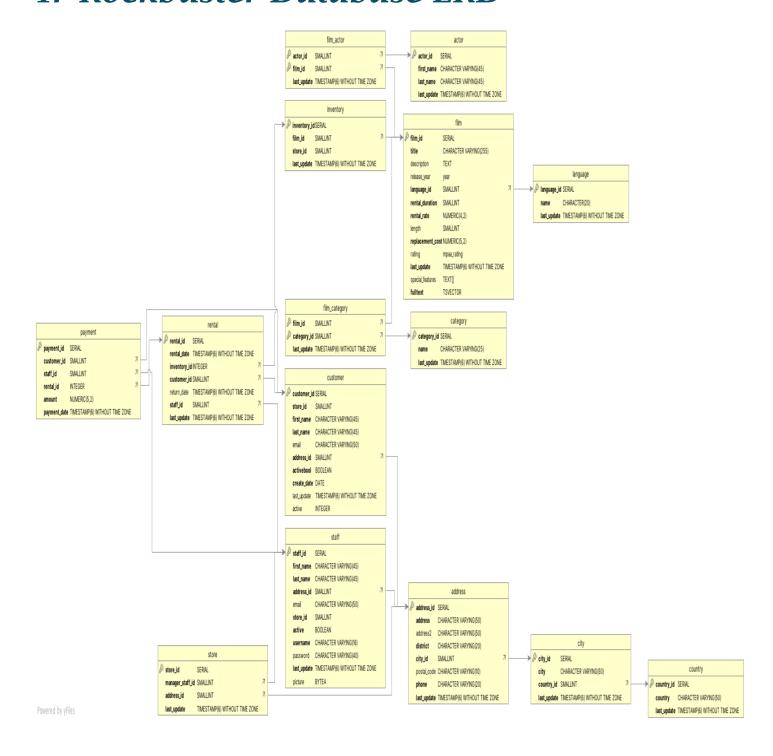
# ROCKBUSTER STEALTH DATA ANALYSIS

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### 1. Rockbuster Database ERD



# Legends



# Primary Key



# Foreign Key

#### 2. Fact Tables:

Table 1: Rental Table

Key Type	Column Name	Data Type	Description
<b>1 1 1 1 1 1 1 1 1 1</b>	Rental_id	SERIAL	Primary key, integer, unique number to identify the rental transaction
	Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec) used to indicate time and date when rent has started.
(50) (31)	Inventory_id	INTEGER	Foreign key, larger integer, unique number used to identify a film or item to be rented by customers
(2) (2)	Customer_id	SMALLINT	Foreign key, small integer, unique number to identify the customer.
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec) used to indicate time and

			date when rental item to be returned.
66 60 60 60 60	Staff_id	SMALLINT	Foreign key, small integer, unique number to identify the personnel member or Rockbuster
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec) used to indicate time and date when rental item was last updated.

Key Type	Column Name	Data Type	Description
<del>200</del>	payment_id	SERIAL	Primary key, integer, unique number to identify the payment
(1) (2)	customer_id	SMALLINT	Foreign key, small integer, unique number used to identify the customer.
(1) (C)	staff_id	SMALLINT	Foreign key, small integer, unique number used to identify the personnel member or Rockbuster
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	rental_id	INTEGER	Foreign key, larger integer, unique number to identify the rental transaction
	amount	NUMERIC(5,2)	Total amount of sale, number with max 5 digits.
	Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time(hrs:mints:sec) when payment was received/confirmed.

## **Dimension Tables:**

#### Table 1: Film\_actor

Key Type	Colu mn Name	Data Type	Description
<b>28</b> 8	Actor _id	SMAL LINT	Composite key and Foreign key, unique number used to identify the actor in the database and link to Actor table.
(2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	Film_i d	SMAL LINT	Composite key and Foreign key, unique number used to identify the film in the database and link to Film table.
	Last_ updat e	TIME STAM P(6) WITH OUT TIME ZONE	Temporal data to store date and time.

## Table 2: Inventory

Key	Colum	Data	Description
Typ	n	Туре	
e	Name		
<b>38</b>	invent ory_id	SMALLINT	Primary key, larger integer, unique number used to identify the item or film in inventory.
(2) (2)	Film_i d	SMALLINT	Foreign key, unique number used to identify the film in the database and link to Film table.
(2) (6) (6)	Store_i d	SMALLINT	Small integer, unique number used to identify the store in Rockbuster.
	Last_u pdate	TIMESTAM P(6) WITHOUT TIME ZONE	Temporal data to store date and time.

Table 3: Film

Key Type	Column Name	Data Type	Description
<b>88</b>	Film_id	SERIAL	Primary key, unique number used to identify each film as rental item.
	title	CHARACTER VARYING(255)	Film title, fixed- length character with max 255
	description	TEXT	Film description with unlimited length.
	Release_year	YEAR	Year of the film released.
6.9 6.0 7.0 7.0 7.0	Language_id	SMALLINT	Foreign key to identify the language of film audio; linked to Language table
	Rental_durati on	SMALLINT	Small integer, the number of days the item was rented
	Rental_rate	NUMERIC(4,2)	rental cost per day, number with max 4 degits
	length	SMALLINT	Small integer, length of film(hr:mint)
	Replacement_ cost	NUMERIC(5,2)	The cost of customer can be charged in case of lost or damage of rental item; total amount, number with max 5 digits.
	rating	Mpaa_rating	Film rating introduced by Movie Picture Association
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd)

		and time (hrs:mint:sec) used to indicate time and date when rental item was last updated.
Special_featur es	TEXT[]	Special features available for audience
fultext	TSVECTOR	Text-searchable data where a word can be used as an index.

# Table 4: Language

Key Type	Column Name	Data Type	Description
<b>88</b>	Langua ge_id	SERIAL	Primary key, unique number used to identify the language in this database
	name	CHARACTER(2 0)	The name of the language of the film audio.
	Last_up date	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec) used to indicate time and date when rental item was last updated

## Table 5: Actor

	Key Type	Column Name	Data Type	Description
•	<b>38</b>	actor_id	SERIAL	Primary key, unique number used to identify the actor in this database

First_na	CHARACTER	The First name of the actor,
me	VARYING (45)	max 45 characters.
Last_na	CHARACTER	The Last name of the actor, max
me	VARYING (45	45 characters.
Last_up	TIMESTAMP(	Temporal data, store both
date	6) WITHOUT	date(yyyy-mm-dd) and time
	TIME ZONE	(hrs:mint:sec) used to indicate
		time and date when rental item
		was last updated

## Table 6: Film Category

Key	Colum	Data Type	Description	
Type	n			
	Name			
, 98e	film_id	SMALLINT	Composite key, unique number used to identify the film in this database; Foreign key linked Film table.	
(2) (6)	Catego ry_id	SMALLINT	Composite key, unique number used to identify the film category in this database; Foreign key linked Category table	
	Last_u pdate	TIMESTAMP( 6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec) used to indicate time and date when rental item was last updated	

## Table 7: Category

Key	Column	Data Type	Description
Type	Name		
<b>28</b>	categor y_id	SERIAL	Primary key, unique number used to identify the film category in this database

na		CHARACTER( 20)	The name of the film category, max 25 characters.
	ite (	6) WITHOUT	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec) used to indicate time and date when rental item was last updated

#### Table 8: Customer

Key	Column	Data Type	Description
Туре	Name		
	Customer_id	SERIAL	Primary key, unique
<del>223</del>			number used to identify
			the customer in this
			database
ල්බ /දුම	Store_id	<i>SMALLINT</i>	Small integer, unique
ليا			number used to identify
			the store in rockbuster
	First_name	CHARACTER	Customer's first name,
		VARYING(45)	max 45 length
	Last_name	CHARACTER	Customer's Last Name,
		VARYING(45)	max 45 length
	Email	CHARACTER	Customer's email, max
		VARYING(50)	50 length
ල්බ රූම	Address_id	<i>SMALLINT</i>	Foreign key, customer's
ريا			address and linked to
			Address table
	Activebool	BOOLEAN	True or False to indicate
			customer account status.
		D 4 600	It can be null value
	Create_date	DATE	Temporal data, The date
			when Customer created
	7 1-4-	TIMECTAMD(C)	the account
	Last_update	TIMESTAMP(6)	Temporal data, store
		WITHOUT	both date(yyyy-mm-dd)
		TIME ZONE	and time (hrs:mint:sec)
			used to indicate time and
			date when customer
			details were last updated

Active	INTEGER	Integer, customer's account is still active or
		not

# Table 9: Staff

Key	Column	Data Type	Description
Type	Name	7.	•
<b>28</b>	Staff_id	SERIAL	Primary key, unique number to identify the personnel member
	First_name	CHARACTER VARYING(45)	Employee's first name , max 45 length
	Last_name	CHARACTER VARYING(45)	Employee's last name, max 45 length
(50) (32)	Address_id	SMALLINT	Foreign key, employee's address, linked to Address table
	Email	CHARACTER VARYING(50)	Employee's email, max length 50
(5) (3)	Store_id	SMALLINT	Small integer, unique number to identify the store in database
	Active	BOOLEAN	True or False
	Username	CHARACTER VARYING(16)	Employee's username/ login for internal account, max length 16 characters
	Password	CHARACTER VARYING(40)	Employee's password used to login the account, max length 40
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec).
	Picture	BYTEA	Employee's picture; Bytea data type is used to store raw binary data such as image.

#### Table 10: Store

Key Type	Column Name	Data Type	Description
<b>28</b>	Store_id	SERIAL	Primary key, unique number to identify the store in database
(1) (2) (5)	Manager_staff_id	SMALLINT	Foreign key, unique number to identify the store manager in database, linked to Staff table
(50) (50)	Address_id	SMALLINT	Foreign key, unique number to identify the store address in database, linked to Address table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec).

## Table 11: Address

Key Type	Column Name	Data Type	Description
1)pc	Address_id	SERIAL	Primary key, unique number to identify the address in database
	Address	CHARACTER VARYING(50)	Address in this database- Line 1; street number and street name)

	Address2	CHARACTER	Line 2 as a secondary
		VARYING(50)	address such as
			apartment number or
			building name
	District	CHARACTER	District/state/region
		VARYING(20)	name
ල්බ ල්බ	City_id	SMALLINT	Foreign key, unique
12			number to identify the
~			city in database, linked to
			City table
	Postal_code	CHARACTER	Postal code, max 10
		VARYING(10)	length
	Phone	CHARACTER	Phone number related to
		VARYING(20)	the address, max 20
			length
	Last_update	TIMESTAMP(6)	Temporal data, store
	_	WITHOUT	both date(yyyy-mm-dd)
		TIME ZONE	and time (hrs:mint:sec) .

# Table 12: City

Кеу Туре	Column Name	Data Type	Description
<b>98</b>	City_id	SERIAL	Primary key, unique number to identify the city in the database
	City	CHARACTER VARYING(50)	City name in the address in this database
(5°)	Country_id	SMALLINT	Foreign key, unique number to identify the country in database, linked to Country table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec).

# Table 13: Country

Key Type	Column Name	Data Type	Description
<b>28</b>	Country_id	SERIAL	Primary key, unique number to identify the country in the database
	Country	CHARACTER VARYING(50)	Country name in the address, max length 50
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Temporal data, store both date(yyyy-mm-dd) and time (hrs:mint:sec).