ROCKBUSTER STEALTH

Data Dictionary

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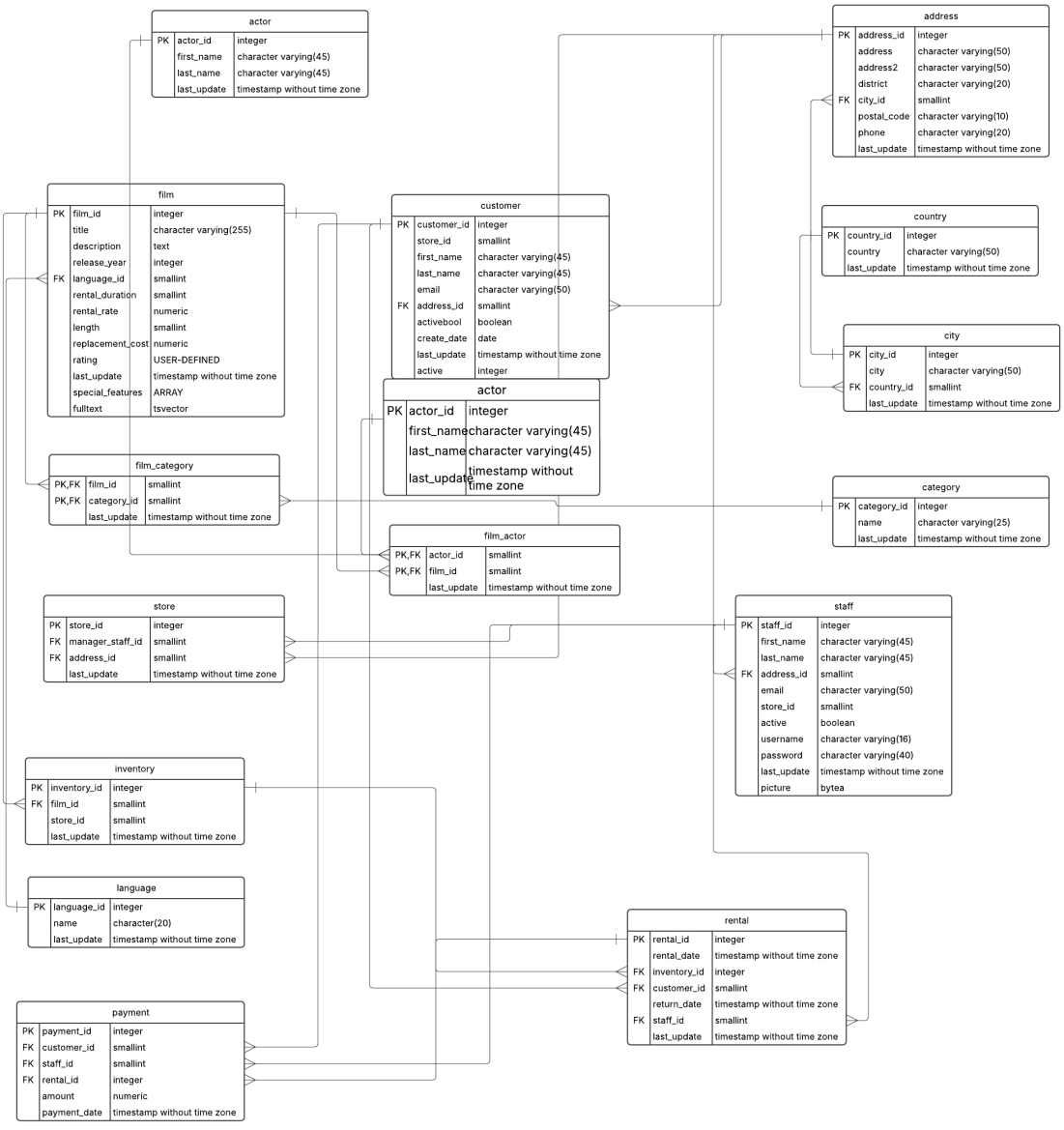
Table of Contents

1.Introduction: The Data Dictionary serves as a repository for the Rock buster Stealth database by supplying structures, key attributes and their relationships. With the help of the fields, it is easy for the end user to identify the primary keys and its foreign keys thereby establishing relationships. Here we have a clear picture of the ER Diagram along with the table relationship for the Rock buster database.

2. E-R Diagram:



3.Tables

3.1. Facts Tables: Tables that store 'quantitative data' or 'facts' required for the business process like transactions or sales or revenue mostly connected with Dimension tables.

3.2. Dimension Tables: Tables that store 'qualitative data' or 'descriptive data' that provide context to the data in the Facts table or in other words stores attributes describing the facts in the facts table.

4.Facts Tables:

4.1.Rental table:

Field Name	Key	Data Type	Description
rental_id	Primary	integer	unique rental ID for the rental transaction.
rental_date	N/A	Timestamp without Timezone	date for the rental transaction
inventory_id	Foreign	integer	unique inventory ID to connect with the inventory table
customer_id	Foreign	smallint	unique customer ID to connect to the customer table
return_date	N/A	Timestamp without Timezone	date for the return of rental item.
staff_id	Foreign	smallint	unique staff ID to connect to the customer table
last_update	N/A	Timestamp without Timezone	time when the last update was made

4.2.Payment table:

Field Name	Key	Data Type	Description
payment_id	primary	integer	unique payment ID for each transaction
customer_id	Foreign	smallint	unique customer ID to connect to the customer table
staff_id	Foreign	smallint	unique staff ID to connect with the staff table
rental_id	foreign	integer	unique rental ID for the rental transaction.
amount	Foreign	numeric	amount paid
payment_date	N/A	Timestamp without Timezone	date for the payment to be made

5.Dimesion Tables:

5.1.Customer table:

Field Name	Key	Data Type	Description
customer_id	primary	integer	unique customer ID for each transaction
store_id	foreign	smallint	unique store ID to connect to the store table
first_name	N/A	character varying (45)	customer first name
last_name	N/A	character varying (45)	customer last name
email	N/A	character varying(50)	email of the customer
address_id	foreign	smallint	unique address ID to connect to the address table.
activebool	N/A	boolean	indicator to check customer activity
create_date	N/A	date	date for the
last_update	N/A	Timestamp without Timezone	date for the payment to be made
active	N/A	integer	a flag indicator for checking users currently active.

5.2.Address table:

Field Name	Key	Data Type	Description
customer_id	primary	integer	unique customer ID for each transaction
store_id	foreign	smallint	unique store ID to connect to the store table
first_name	N/A	character varying (45)	customer first name
last_name	N/A	character varying (45)	customer last name
email	N/A	character varying(50)	email of the customer
address_id	foreign	smallint	unique address ID to connect to the address table.
activebool	N/A	boolean	indicator to check customer activity
create_date	N/A	date	date for the
last_update	N/A	Timestamp without Timezone	date for the payment to be made
active	N/A	integer	a flag indicator for checking users currently active.

5.3.City table:

Field Name	Key	Data Type	Description
city_id	primary	integer	unique city ID for each transaction
city	N/A	character varying (45)	city name
country_id	foreign	smallint	unique country ID to connect to the country table.
last_update	N/A	Timestamp without Timezone	date for the payment to be made

5.4.Country table:

Field Name	Key	Data Type	Description
country_id	primary	integer	unique country ID for each transaction
country	N/A	character varying (50)	country name
last_update	N/A	Timestamp without Timezone	date for the payment to be made

5.5.Film table:

Field Name	Key	Data Type	Description
film_id	primary	integer	unique film ID for each transaction
title	N/A	character varying (255)	title of the film
description	N/A	text	description of the title
release_year	N/A	integer	release year of the film
language_id	foreign	smallint	unique language ID to connect to the language table.
rental_duration	N/A	smallint	duration of the movie rented
rental_rate	N/A	numeric	rate at which the movie is rented
length	N/A	smallint	length of the movie
replacement_cost	N/A	numeric	cost required for the replacement of the movie
rating	N/A	USER-DEFINED	user defined rating allotted for each movie based on the feedback of customers
last_update	N/A	Timestamp without Time zone	date for the payment to be made
special_features	N/A	ARRAY	special features of the film
fulltext	N/A	tsvector	text search in a vector

5.6.Film category table:

Field Name	Key	Data Type	Description
film_id	primary	smallint	unique film ID for each transaction
category_id	foreign	smallint	unique category ID to connect to the category table
last_update	N/A	Timestamp without Timezone	date for the payment to be made

5.7.Category table:

Field Name	Key	Data Type	Description
category_id	primary	integer	unique category ID for each transaction
name	N/A	character varying (25)	category name
last_update	N/A	Timestamp without Timezone	date for the payment to be made

5.8. Film actor table:

Field Name	Key	Data Type	Description
actor_id	primary	smallint	unique actor ID for each transaction
film_id	foreign	smallint	unique film ID to connect to the film table
last_update	N/A	Timestamp without Timezone	date for the payment to be made

5.9.Actor table:

Field Name	Key	Data Type	Description
actor_id	primary	integer	unique actor ID for each transaction
first_name	N/A	character varying (45)	actor first name
last_name	N/A	character varying (45)	actor last name
last_update	N/A	Timestamp without Timezone	date for the payment to be made

5.10.Language table:

Field Name	Key	Data Type	Description
language_id	primary	integer	unique language ID for each transaction
name	N/A	character (20)	language name
last_update	N/A	Timestamp without Timezone	date for the payment to be made

5.11.Store table:

Field Name	Key	Data Type	Description
store_id	primary	integer	unique store ID to connect to the store table
manager_staff_id	foreign	smallint	unique manager ID to connect to the staff table.
address_id	foreign	smallint	unique address ID to connect to the address table.
last_update	N/A	Timestamp without Timezone	date for the payment to be made

5.12.Staff table:

Field Name	Key	Data Type	Description
staff_id	primary	integer	unique staff ID for each transaction
first_name	N/A	character varying (45)	staff first name
last_name	N/A	character varying (45)	staff last name
email	N/A	character varying(50)	email of the staff
address_id	foreign	smallint	unique address ID to connect to the address table.
store_id	foreign	smallint	unique store ID to connect to the store table.
active	N/A	boolean	a flag indicator for checking staff currently active or working.
username	N/A	character varying (16)	user name of the staff
password		character varying (40)	password for the staff username
last_update	N/A	timestamp without timezone	staff details last updated
picture	N/A	bytea	Staff picture for Identity.

5.13. Inventory table:

Field Name	Key	Data Type	Description
inventory_id	primary	integer	unique inventory ID for each transaction
film_id	foreign	smallint	unique film ID to connect to the film table
store_id	foreign	smallint	unique store ID to connect to the store table
last_update	N/A	Timestamp without Timezone	date for the payment to be made