

Data Dictionary

For
SQL database
of

ROCKBUSTER STEALTH LLC

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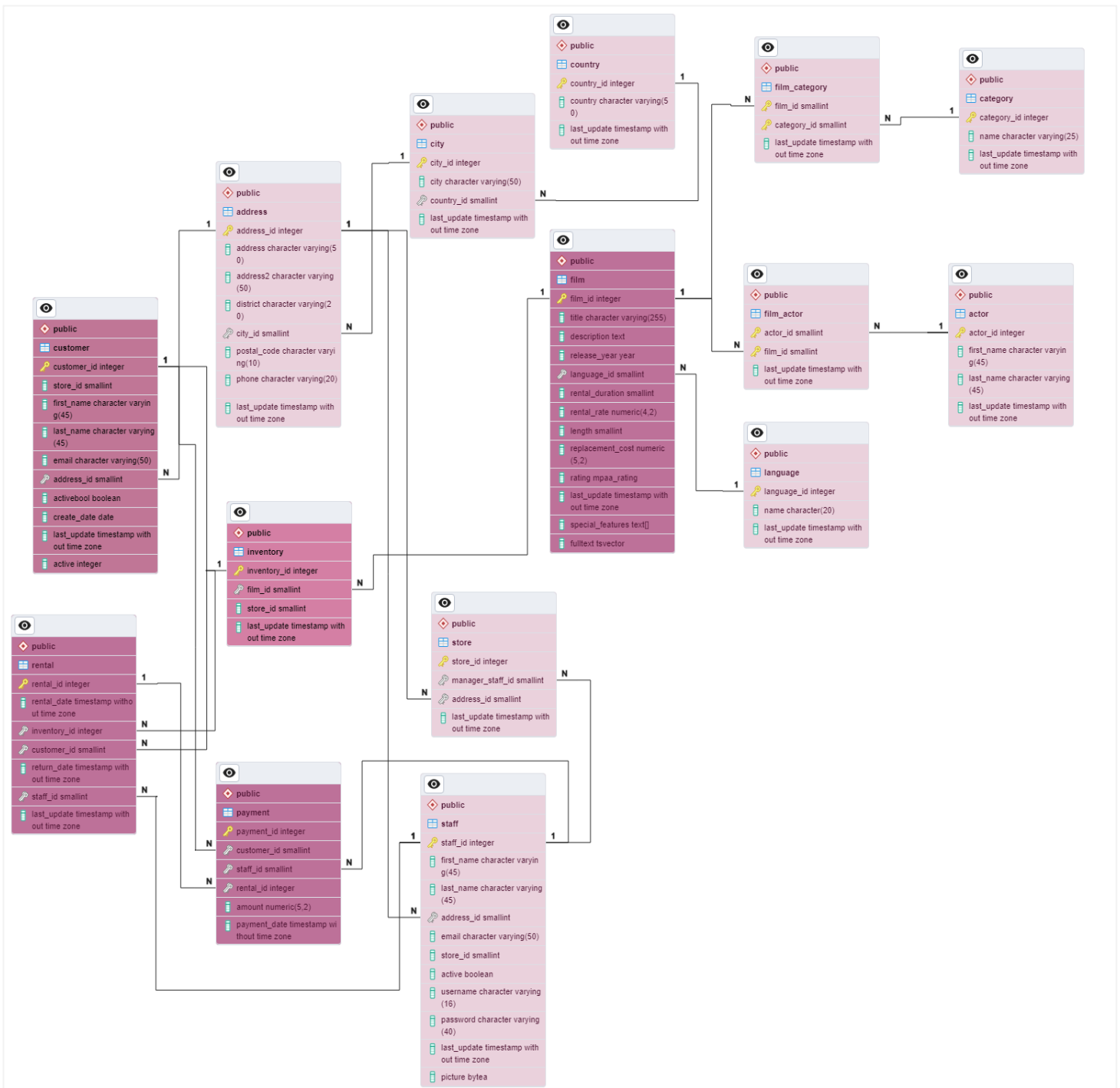
1. Introduction

Rockbuster Stealth LLC (Rockbuster) is a movie rental company that used to have stores around the world. This is the data dictionary of SQL database of Rockbuster Stealth LLC. This document is providing a thorough guide to the structure, organization, and meaning of data within Rockbuster SQL database.

It provides a centralized source of metadata that defines the various tables, columns, relationships, constraints, and database objects of Rockbuster SQL database to facilitate data management, analysis, and understanding for database administrators, developers, and users. Also, to improve the aspects such as data quality, consistency of data, and easy accessibility to data, and empower stakeholders to make informed decisions and effectively utilize Rockbuster SQL database.

2. Entity Relationship Diagram (ERD) of Rockbuster SQL database







This ERD represent the relationships between entities in Rockbuster SQL database. It provides a clear overview of the structure and organization of the database by demonstrating how entities are related to each other through various types of relationships such as one-to-one, one-to-many, or many-to-many.











3. Tables

In this section explains about the Tables of Rockbuster SQL database. These tables serve as a foundational reference for database design and management, offering a visual blueprint of Rockbuster SQL database structure.

Below symbols have been used in ERD of Rockbuster SQL database

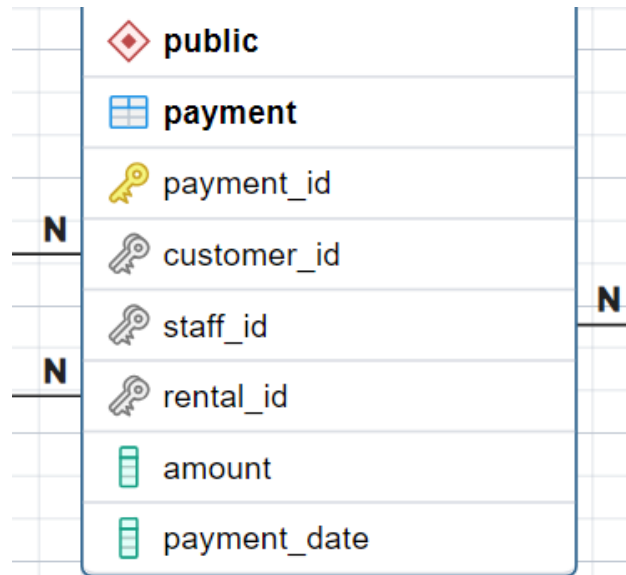
| SYMBOL | MEANING |
|---|--|
|  | Table |
|  | Primary Key column |
|  | Foreign Key column |
|  | Other data columns except Primar Key & Foreign Key |
| <u>N</u> or  | Many relationships |
| <u>1</u> or  | One relationship |

4. Rental_Table

| | |
|---|----------|
|  rental | |
|  rental_id | 1 |
|  rental_date | |
|  inventory_id | N |
|  customer_id | N |
|  return_date | |
|  staff_id | N |
|  last_update | |

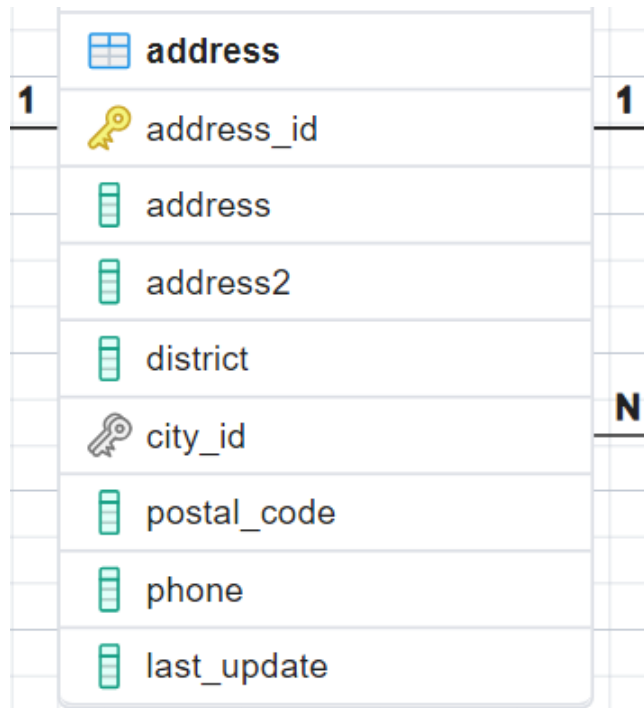
| rental | | |
|--------------|-----------------------------|-----------------------------------|
| Column | Data Type | Description |
| rental_id | integer | Primary Key, Unique rental number |
| rental_date | timestamp without time zone | Movie rentig date |
| inventory_id | integer | Foreign Key,Inventory Id of movie |
| customer_id | smallint | Customer ID number |
| return_date | timestamp without time zone | Movie return date |
| staff_id | smallint | Employee ID |
| last_update | timestamp without time zone | Last updated date & time |

5. Payment_Table



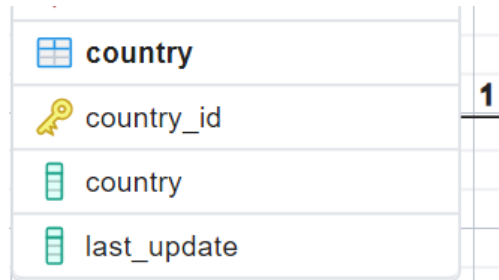
| payment | | |
|--------------|-----------------------------|-----------------------------------|
| Column | Data Type | Description |
| payment_id | integer | Primary Key, Payment ID |
| customer_id | smallint | Foreign Key, Customer ID number |
| staff_id | smallint | Foreign Key, Employee ID |
| rental_id | integer | Foreign Key, Unique rental number |
| amount | numeric | Rental value |
| payment_date | timestamp without time zone | Date of the rental payment |

6. Address_Table



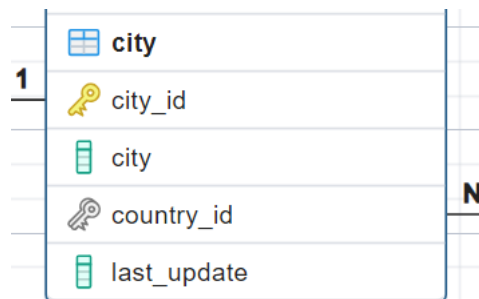
| address | | |
|-------------|-----------------------------|----------------------------|
| Column | Data Type | Description |
| address_id | integer | Primary Key, ID of address |
| address | character varying(50) | Street name 1 |
| address2 | character varying(50) | Street name 2 |
| district | character varying(20) | District of address |
| city_id | smallint | Foreign Key, Id of City |
| postal_code | character varying(10) | Postal code of address |
| phone | character varying(20) | Phone number for address |
| last_update | timestamp without time zone | Last updated date & time |

7. Country_Table



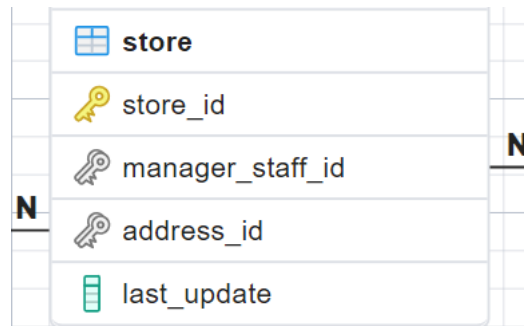
| country | | |
|-------------|-----------------------------|--------------------------|
| Column | Data Type | Description |
| country_id | integer | Primary Key, Country ID |
| country | character varying(50) | Country name |
| last_update | timestamp without time zone | Last updated date & time |

8. City_Table



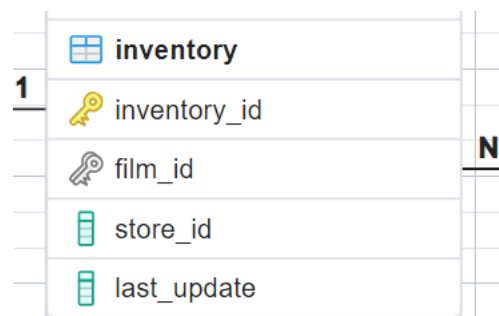
| city | | |
|-------------|-----------------------------|---------------------------------|
| Column | Data Type | Description |
| city_id | integer | Primary Key, Id of city |
| city | character varying(50) | City name |
| country_id | smallint | Foreign Key, country ID of city |
| last_update | timestamp without time zone | Last updated date & time |

9. Store_Table



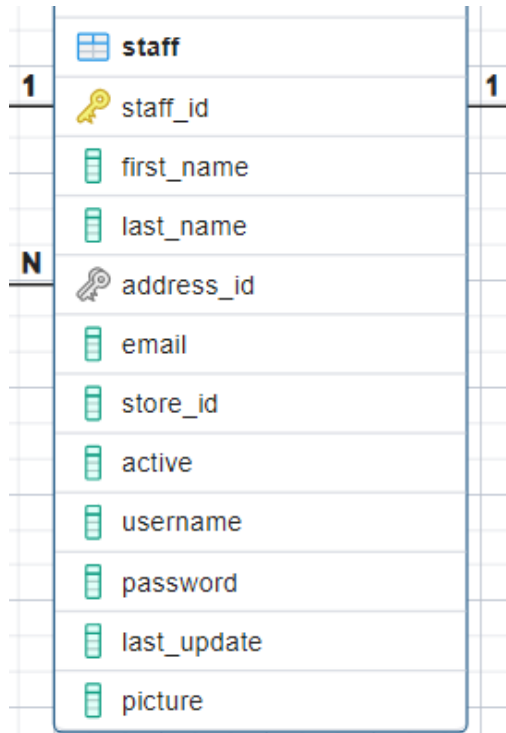
| store | | |
|------------------|-----------------------------|-------------------------------|
| Column | Data Type | Description |
| store_id | integer | Primary Key, Store number/ID |
| manager_staff_id | smallint | Foreign Key, Employee ID |
| address_id | smallint | Foreign Key, Store address ID |
| last_update | timestamp without time zone | Last updated date & time |

10. Inventory_Table



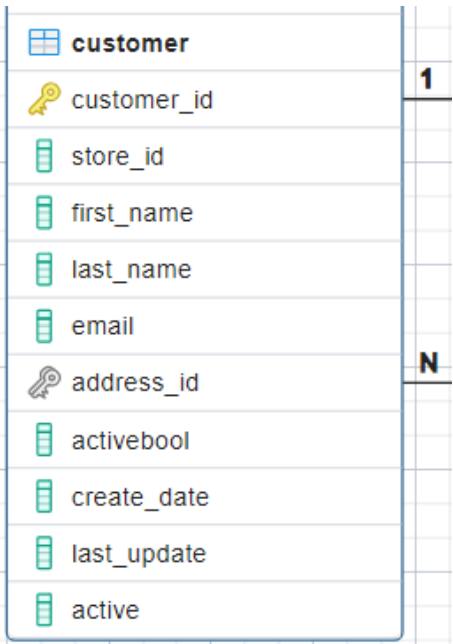
| inventory | | |
|--------------|-----------------------------|----------------------------------|
| Column | Data Type | Description |
| inventory_id | integer | Primary Key, Inventory ID number |
| film_id | smallint | Foreign Key, ID number of Film |
| store_id | smallint | Store number/ID |
| last_update | timestamp without time zone | Last updated date & time |

11. Staff_Table

















| staff | | |
|-------------|-----------------------------|----------------------------|
| Column | Data Type | Description |
| staff_id | integer | Primary Key, Employee ID |
| first_name | character varying(45) | First name of Employee |
| last_name | character varying(45) | Last name of Employee |
| address_id | smallint | Foreign Key |
| store_id | smallint | Store number/ID |
| email | character varying(50) | Email of employee |
| active | boolean | Is Employee Active or not? |
| username | character varying(16) | User name of Employee |
| password | character varying(40) | Password of employee |
| last_update | timestamp without time zone | Last updated date & time |
| picture | bytea | Picture of employee |

12.Customer_Table



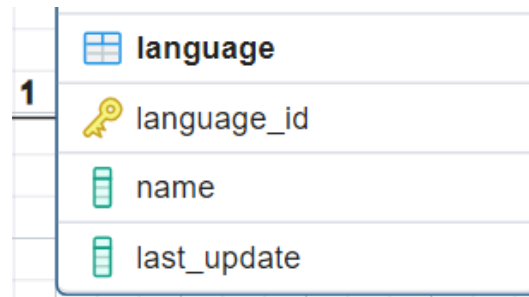
| customer | | |
|-------------|-----------------------------|-------------------------------------|
| Column | Data Type | Description |
| customer_id | integer | Primary Key |
| store_id | smallint | Store number/ID |
| first_name | character varying(45) | First name of customer |
| last_name | character varying(45) | Last name of customer |
| email | character varying(50) | Email address of customer |
| address_id | smallint | Foreign Key, address ID of customer |
| activebool | boolean | Is this an Active customer or not? |
| create_date | date | Date of customer created |
| last_update | timestamp without time zone | Last updated date & time |
| active | integer | Customer account is Active? |

13. Film_Table

| | | |
|----------|--|----------|
| |  film | |
| 1 |  film_id | 1 |
| |  title | |
| |  description | |
| |  release_year | |
| |  language_id | N |
| |  rental_duration | |
| |  rental_rate | |
| |  length | |
| |  replacement_cost | |
| |  rating | |
| |  last_update | |
| |  special_features | |
| |  fulltext | |

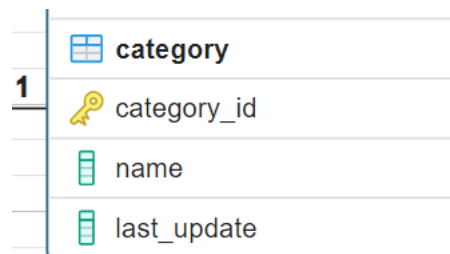
| film | | |
|------------------|-----------------------------|------------------------------------|
| Column | Data Type | Description |
| film_id | integer | Primary Key, ID number of Film |
| title | character varying(255) | Title of the movie |
| description | text | Description of Movie |
| release_year | integer | Release year of movie |
| language_id | smallint | Foreign Key, Language of the movie |
| rental_duration | smallint | Length of the rental period |
| rental_rate | numeric | Rental price |
| length | smallint | Duration of movie |
| replacement_cost | numeric | Cost to replace the movie |
| rating | USER-DEFINED | Rating from viewers |
| last_update | timestamp without time zone | Last updated date & time |
| special_features | ARRAY | Special features of film |
| fulltext | tsvector | Movie text |

14. Language_Table



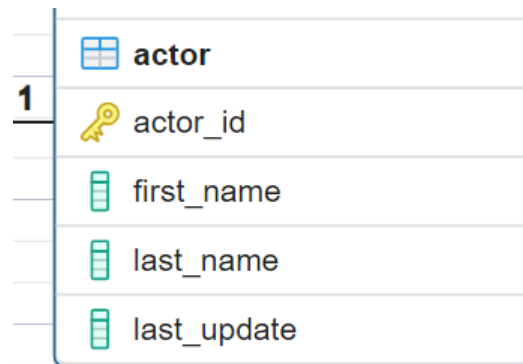
| language | | |
|-------------|-----------------------------|------------------------------------|
| Column | Data Type | Description |
| language_id | integer | Primary Key, ID number of language |
| name | character(20) | Name of language |
| last_update | timestamp without time zone | Last updated date & time |

15. Category_Table



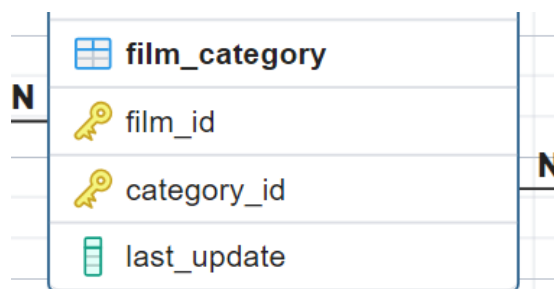
| category | | |
|-------------|-----------------------------|-----------------------------|
| Column | Data Type | Description |
| category_id | integer | Primary Key, ID of category |
| name | character varying(25) | name of category |
| last_update | timestamp without time zone | Last updated date & time |

16.Actor_Table



| actor | | |
|-------------|-----------------------------|--------------------------|
| Column | Data Type | Description |
| actor_id | integer | Primary Key, Id of Actor |
| first_name | character varying(45) | First name of Actor |
| last_name | character varying(45) | Last name of Actor |
| last_update | timestamp without time zone | Last updated date & time |

17.Film_Category_Table



| film_category | | |
|---------------|-----------------------------|--|
| Column | Data Type | Description |
| film_id | smallint | Primary Key & Foreign Key, ID number of Film |
| category_id | smallint | Category ID number |
| last_update | timestamp without time zone | Last updated date & time |

18.Film_Actor_Table



| film_actor | | |
|-------------|-----------------------------|---|
| Column | Data Type | Description |
| actor_id | smallint | Primary Key & Foreign Key, Id number of Actor |
| film_id | smallint | Primary Key & Foreign Key, ID number of Film |
| last_update | timestamp without time zone | Last updated date & time |