**ROCKBUSTER STEALTH**

DATA DICTIONARY

EDYTA KOWAL

**TABLE OF CONTENTS:**

**1.Glossary ----------------------------------------------------------------------------------------------------------------------------------3**

**2.Entity Relationship Diagram (ERD)------------------------------------------------------------------------------------------------4**

**3.Tables--------------------------------------------------------------------------------------------------------------------------------------5**

**3.1 Fact Tables**

3.1.1 Rental Table**-------------------------------------------------------------------------------------------------------------5**

3.1.2 Payment Table-**----------------------------------------------------------------------------------------------------------6**

**3.2 Dimension Tables**

3.2.1 Actor Table**--------------------------------------------------------------------------------------------------------------7**

3.2.2 Address Table**-----------------------------------------------------------------------------------------------------------7**

3.2.3 Category Table**----------------------------------------------------------------------------------------------------------8**

3.2.4 City Table**----------------------------------------------------------------------------------------------------------------9**

3.2.5 Country Table**-----------------------------------------------------------------------------------------------------------9**

3.2.6 Customer Table**--------------------------------------------------------------------------------------------------------10**

3.2.7 Film Table**--------------------------------------------------------------------------------------------------------------11**

3.2.8 Language Table**---------------------------------------------------------------------------------------------------------12**

3.2.9 Staff Table**--------------------------------------------------------------------------------------------------------------12**

3.2.10 Store Table**------------------------------------------------------------------------------------------------------------13**

**3.3 Association Tables**

3.3.1Film Actor Table**-------------------------------------------------------------------------------------------------------14**

3.3.2 Film Category Table**---------------------------------------------------------------------------------------------------15**

3.3.3 Inventory Table**--------------------------------------------------------------------------------------------------------**15

# 1. GLOSARY

**Realational Database**

collection of data stored in one or more tables made up of rows and columns. Between the different tables, there are links, known as relationships.

**Relational Database Management System** (RDBMS)

application used to define, create, maintain, and control access to a relational database. PostgreSQL, also known as Postgres, is a general-purpose RDBMS we use in our company.

**Entity Relationship Diagram (ERD)**

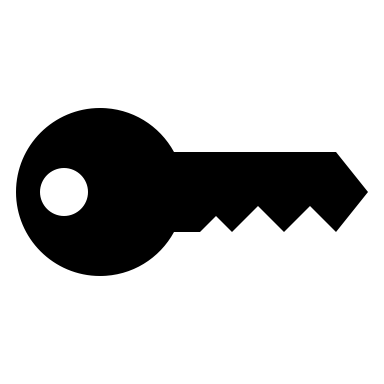
describes the structure of a database including the tables, the columns in each table, the primary key of each table, and how the tables are connected by foreign keys, among other things, llustrates the links between the tables in a relational database.

**Fact Table**

contains measurements, metrics, and facts about a business process, is located at the center of a star or snowflake schema, does not contain a hierarchy.

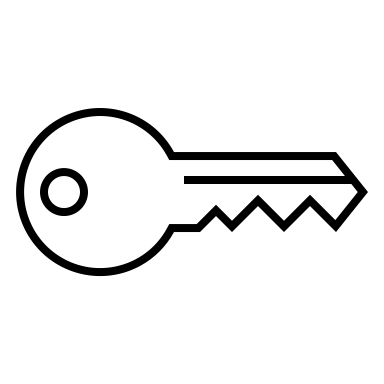
**Dimension Table**

contains descriptive attributes to be used as query constraining, is located at the edges of the star or snowflake schema, contains detailed data andhierarchies



**Primary Key**

is a column or set of columns that acts as a unique identifier for each record in a table. There can only be one primary key within a table, and it has to meet the following criteria: 1. It has to be unique for each row, 2. It cannot be null for any record 3. The values of the primary key can’t be modified if it’s linked to another table.



**Foreign Key**

a column, or set of columns, that refers to the primary key in another table. Foreign keys are used to establish relationships between tables and are helpful in navigating from one table to another.

# 2. ENTITY RELATIONSHIP DIAGRAM

Obraz zawierający tekst, zrzut ekranu, Czcionka, Karteczka samoprzylepna

Opis wygenerowany automatycznie

# 3. TABLES

## **3.1 Fact Tables**

### **3.1.1 Payment Table**

This table stores informations about payments made by Rockbusters customers.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Column name** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | payment\_id | SERIAL | Primary key.  Unique payment identifier |
| Klawisz kontur | customer\_id | SMALLINT | Foreign key. Unique customer identifier |
| Klawisz kontur | staff\_id | SMALLINT | Foreign key. Unique staff identifier |
| Klawisz kontur | rental\_id | INTEGER | Foreign key. Unique rental identifier |
|  | ammount | NUMERICS(5,2) | Payment amount |
|  | payment\_date | TIMESTAMP(6) WITHOU TIME ZONE | Date and time of payment |

Links to CUSTOMER(customer\_id) STAFF(staff\_id) RENTAL(rental\_id)

### Linked from -

### **3.1.1 Rental Table**

This table stores informations about rentals made by made by Rockbusters customers.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | rental\_id | SERIAL | Primary key. Unique rental identifier |
|  | rental\_date | TIMESTAMP(6) WITHOU TIME ZONE | Date and time of rental |
| Klawisz kontur | inventory\_id | INTEGER | Foreign key. Unique inventory identifier |
| Klawisz kontur | customer\_id | SMALLINT | Foreign key. Unique customer identifier |
|  | return\_date | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the film was returned. |
|  | staff\_id | SMALLINT | Unique staff identifier |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to INVENTORY(inventory\_id) CUSTOMER(customer\_id)

### Linked from PAYMENT(renatl\_id)

## **3.2 Dimension Tables**

### **3.2.1 Actor Table**

The table contains the first and last names of actors who appear in films from Rockbuster's library.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | actor\_id | SERIAL | Primary key. Unique actor identifier |
|  | first\_name | CHARACTER VARYING(45) | Actor's first name |
|  | last\_name | CHARACTER VARYING(45) | Actor's last name |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to -

### Linked from FILM\_ACTOR(actor\_id)

### **3.2.2 Address Table**

The table contains address data of people associated with the company, employees and clients.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | addres\_id | SERIAL | Unique address identifier |
|  | address | CHARACTER VARYING(50) | Address |

|  |  |  |  |
| --- | --- | --- | --- |
|  | address2 | CHARACTER VARYING(50) | Additional address details |
|  | district | CHARACTER VARYING(20) | Name of the district |
| Klawisz kontur | city\_id | SMALLINT | Foreign key. Unique city identifier |
|  | postal\_code | CHARACTER VARYING(10) | Postal code |
|  | phone | CHARACTER VARYING(20) | Phone number of staff member |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to CITY(city\_id)

### Linked from STORE(address\_id) STAFF(address\_id) CUSTOMER(address\_id)

### **3.2.3 Category Table**

This table contsins categories of movies from Rockbuster's library.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | category\_id | SERIAL | Primary key. Unique category identifier |
|  | name | CHARACTER VARYING(25) | Name of the category |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to -

Linked from FILM\_CATEGORY(category\_id

### **3.2.4 City Table**

This table contsins cities the cities related to Rockbusters movie collection.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | city\_id | SERIAL | Primary key. Unique city identifier |
|  | city | CHARACTER VARYING(50) | Name of the city |
| Klawisz kontur | country\_id | SMALLINT | Foreign key. Unique country identifier |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to COUNTRY(country\_id)

### Linked from ADDRESS(city\_id))

### **3.2.5 Country Table**

This table contsins countries the cities related to Rockbusters movie collection.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | country\_id | SERIAL | Primary key. Unique country identifier |
|  | country | CHARACTER VARYING(50) | Name of the country |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to -

### Linked from CITY(country\_id)

### **3.2.6 Customer Table**

This table contains data about Rockbusters customers.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | customer\_id | SERIAL | Primary key. Unique customer identifier |
| Klawisz kontur | store\_id | SMALLINT | Foreign key. Unique store identifier |
|  | first\_name | CHARACTER VARYING(45) | Customer’s first name |
|  | last\_name | CHARACTER VARYING(45) | Customer’s last name |
|  | email | CHARACTER VARYING(50) | Customer’s E-Mail address |
| Klawisz kontur | address\_id | SMALLINT | Foreign key. Unique address identifier |
|  | activbool | BOOLEAN | Customer’s activity status as bolean data type: ‘TRUE’ or ‘FALSE’ |
|  | create\_date | DATE | Date of creation customer’s account |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |
|  | active | INTEGER | Customer’s activity status as integer: 1 or 0 |

### Links to STORE(store\_id) ADDRESS(addres\_id)

### Linked from RENTAL(customer\_id)

### **3.2.8 Film Table**

This table contains data about movies from the Rockbusters library.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | film\_id | SERIAL | Primary key. Unique film identifier |
|  | title | CHARACTER VARYING(255) | Full title of a film |
|  | description | TEXT | Film’s description |
|  | release\_day | year | Film’s release day |
| Klawisz kontur | language\_id | SMALLINT | Foreign key. Unique language identifier |
|  | rental\_duration | SMALLINT | Rental duration |
|  | rental\_rate | NUMERIC(4,2) | The film rate (out of 5) |
|  | length | SMALLINT | Film’s length |
|  | replacement\_cost | NUMERIC(5,2) | Cost of replacement |
|  | rating | Mapa\_rating | Age restrictions (suitability for certain audiences based on film content) |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |
|  | special\_features | TEXT[] | Film’s special features |
|  | fulltext | TSVECTOR | Keywords related to the film, used in the search |

### Links to LANGUAGE(language\_id)

### Linked from INVENTORY(film\_id)

### **3.2.9 Language Table**

This table contains data about languages of movies from the Rockbusters library.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | language\_id | SERIAL | Primary key. Unique language identifier |
|  | name | CHARACTER(20) | Film’s language |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to -

### Linked from FILLM(language\_id)

### **3.2.10 Staff Table**

This table contains data about staff members of Rockbuster.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | staff\_id | SERIAL | Primary key. Unique staff member’s identifier |
|  | first\_name | CHARACTER VARYING(45) | Staff members’s first name |
|  | last\_name | CHARACTER VARYING(45) | Staff members’s last name |
| Klawisz kontur | address\_id | SMALLINT | Foreign key. Staff member’s address identifier |
|  | email | CHARACTER VARYING(50) | Staff member‘s E-Mail address |
| Klawisz kontur | store\_id | SMALLINT | Foreign key. Unique staff member’s identifier |
|  | active | BOOLEAN | Staff’s activity status as bolean: ‘TRUE’ or ‘FALSE’ |
|  | user\_name | CHARACTER VARYING(16) | Username for the staff member's account |
|  | password | CHARACTER VARYING(40) | Password for the staff member's account |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |
|  | picture | BYTEA | Picture oft staff member |

### Links to ADDRESS(address\_id) STORE(store\_id)

### Linked from PAYMENT(staff\_id)

### **3.2.11 Store Table**

This table contains data about stores of Rockbuster.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | store\_id | SERIAL | Primary key. Unique store identifier |
| Klawisz kontur | manager\_staff\_id | SMALLINT | Foreign key. Unique managers staff identifier |
| Klawisz kontur | address\_id | SMALLINT | Unique store address identifier |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to STAFF(store\_id) ADDRESS(address\_id)

### Linked from -

## **3.3 Assotiation Tables**

### **3.3.1 Film\_actor Table**

This table represents the association between actors and films in Rockbuster's movie library.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | actor\_id | SMALLINT | Primary key. Unique actor identifier |
| Klawisz kontur | film\_id | SMALLINT | Foreign key. Unique film identifier |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to ACTOR(actor\_id) FILM(film\_id)

### Linked from -

### **3.3.2 Film\_category Table**

This table represents the association between films and categories in Rockbuster's movie library.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | film\_id | SMALLINT | Primary key. Unique film identifier |
| Klawisz kontur | category\_id | SMALLINT | Foreign key. Unique category identifier |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to -

### Linked from CATEGORY(category\_id) FILM(film\_id)

### **3.3.3 Inventory Table**

This table contains inventory data of Rockbuster's movie library.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Columns** | **Data type** | **Description** |
| Klawisz z wypełnieniem pełnym | inventory\_id | SERIAL | Unique inventory identifier |
| Klawisz kontur | film\_id | SMALLINT | Foreign key. Unique film identifier |
| Klawisz kontur | store\_id | SMALLINT | Foreign key. Unique store identifier |
|  | last\_update | TIMESTAMP(6) WITHOU TIME ZONE | Date and time the record was last updated. |

### Links to FILM(film\_id)

### Linked from RENTAL(inventory\_id) STORE(store\_id)