

ROCKBUSTER

DATA DICTIONARY

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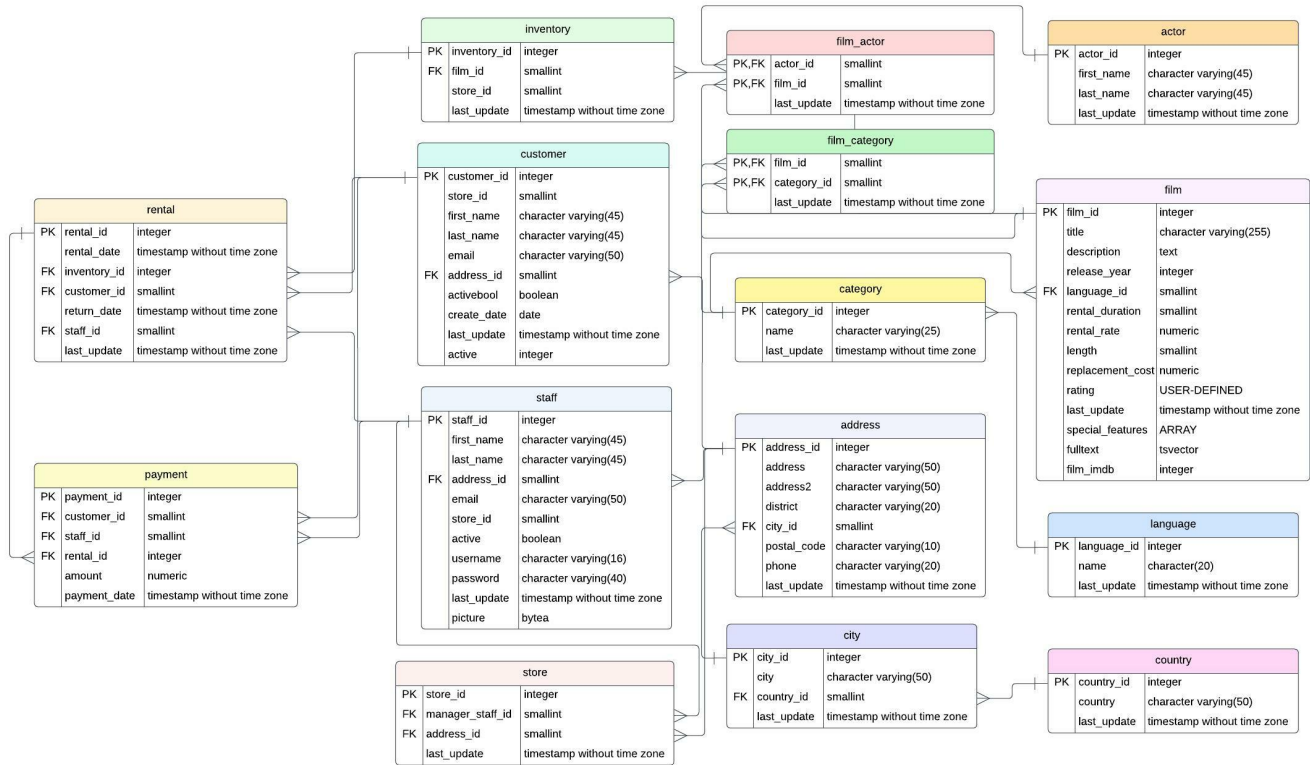
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 Primary Key

 Foreign Key

ENTITY RELATIONSHIP DIAGRAM (ERD)



2. FACT TABLES

2.1 Rental

| Column | Data Type | Description |
|----------------|----------------------------------|---|
| Rental_id 🗝️ | SERIAL | A surrogate key without any meaning to the record but used as a unique identifier. |
| Rental_data | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp of the date rental was rented out in YYYY-MM-DD and HH:MM:SS. Does not include time zone |
| Inventory_id 🌐 | INTEGER | Number assigned as integer and is a foreign key for inventory table. |
| Customer_id 🌐 | SMALLINT | Number assigned as small integer, which has smaller storage size than integers. It's a foreign key for customer table |
| Return_date | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp of the date the rental was returned. Assigned in YYYY-MM-DD and HH:MM:SS. Does not include time zone. |
| Staff_id 🌐 | SMALLINT | Number assigned as small integer for each staff. It's a foreign key for staff table. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information of the rental was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

2.2 Payment

| Column | Data Type | Description |
|---------------|-----------|---|
| Payment_id 🗝️ | SERIAL | Surrogate key that is unique to the payment made but does not hold any meaning to the record. Written in integer. |
| Customer_id 🌐 | SMALLINT | Number assigned as small integer, which has smaller storage size than integers. It's a foreign key for customer table |
| Staff_id 🌐 | SMALLINT | Number assigned as small integer for each staff. It's a foreign key for staff table. |
| Rental_id 🌐 | INTEGER | Number assigned uniquely for the rental. Written in integer and is a foreign key for the rental table. |

| | | |
|--------------|----------------------------------|---|
| Amount | NUMERIC (5,2) | Amount paid for the rental and written with whole number up to 5 digits and 2 decimal points. |
| Payment_date | TIMESTAMP(6) WITHOUT TIMEZONE | Time the payment was made. Written in YYYY-MM-DD and HH:MM:SS |

3. DIMENSION TABLES

3.1 Inventory



| Column | Data Type | Description |
|---------------|----------------------------------|---|
| Inventory_id🔑 | SERIAL | Surrogate key to specify the inventory and it is a serial format which is automatically assigned. |
| Film_id🌐 | SMALLINT | Number assigned for film in a small integer format. Foreign key for film table. |
| Store_id | SMALLINT | Number assigned for store in small integer format. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

3.2 Customer




| Column | Data Type | Description |
|--------------|--------------------------|--|
| Customer_id🔑 | SERIAL | Surrogate key for the customer table written in serial format. Unique for each customer. |
| Store_id | SMALLINT | Number assigned for store in small integer format. |
| First_name | CHARACTER VARYING(45) | First name of the customer with maximum length of 45. |
| Last_name | CHARACTER VARYING(45) | Last name of the customer with maximum length of 45. |
| Email | CHARACTER VARYING(50) | Email address of the customer with maximum length of 50. |
| Address_id🌐 | SMALLINT | Number assigned as a small integer for address. It's a foreign key for address table. |
| Activebool | BOOLEAN | Shows whether the customer is active or not written in Boolean, which is either true or false. |
| Create_date | DATE | Date on when the customer was created. Written in YYYY-MM-DD |

| | | |
|-------------|----------------------------------|---|
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |
| Active | INTEGER | Shows whether the customer is active in integer format. |



3.3 Staff

| Column | Data Type | Description |
|--|----------------------------------|---|
| Staff_id  | SERIAL | Surrogate key for each staff in serial format. |
| First_name | CHARACTER VARYING(45) | First name of the staff with maximum of 45 character. |
| Last_name | CHARACTER VARYING(45) | Last name of the staff with maximum of 45 character. |
| Address_id  | SMALLINT | Number assigned as a small integer for address. It's a foreign key for address table. |
| Email | CHARACTER VARYING(50) | Email for the staff in maximum of 50 characters. |
| Store_id | SMALLINT | Number assigned for store in small integer format. |
| Active | BOOLEAN | Shows whether the staff is active in Boolean format: true or false. |
| Username | CHARACTER VARYING(16) | Username of the staff with maximum of 16 characters. |
| Password | CHARACTER VARYING(40) | Passwored of the staff with maximum of 40 chracters. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |
| Picture | BYTEA | Picture of the staff in binary format. |

3.4 Store





| Column | Data Type | Description |
|--|-------------------------------------|--|
| Store_id  | SERIAL | Surrogate key to specify the store. Written in serial, which is automatically assigned by the database server when a new row is added. |
| Manager_staff_id  | SMALLINT | Number assigned as a small integer for each manager staff. It's a foreign key for manager table. |
| Address_id  | SMALLINT | Number assigned as a small integer for address. It's a foreign key for address table. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

3.5 Film





| Column | Data Type | Description |
|---|---------------------------|--|
| Film_id  | SERIAL | Surrogate key, unique to each row, written in serial. |
| Title | CHARACTER VARYING(255) | Title of the film with maximum of 255 characters |
| Description | TEXT | Description of the film in text without limit. |
| Release_year | YEAR | Year the film was released in YYYY format |
| Language_id  | SMALLINT | Number assigned for the language of the film in small integer. Foreign key for language table. |
| Rental_duration | SMALLINT | Duration of the rental written in small integer |
| Rental_rate | NUMERIC(4,2) | Rate of the rental written with 4 digits and 2 decimal points. |
| Length | SMALLINT | Length of the film written in small integer |
| Replacement_cost | NUMERIC(5,2) | Cost to replace the film written in 5 digits with 2 decimal points. |
| Rating | MPAA_RATING | Rating of the film written in MPAA rating |

| | | |
|------------------|----------------------------------|---|
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |
| Special_features | TEXT[] | Special features of the film written inside the brackets [] |
| Fulltext | TSVECTOR | Full text of the film written in TSVECTOR which is optimized for text search |


3.6 Film Category

| Column | Data Type | Description |
|---|----------------------------------|---|
| Film_id   | SMALLINT | Surrogate key for this table written in small integer format. Foreign key for film table. |
| Category_id   | SMALLINT | Number assigned for category in small integer format. Foreign key for category table. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

3.7 Film Actor

| Column | Data Type | Description |
|--|----------------------------------|---|
| Actor_id   | SMALLINT | Number assigned for the actor in a small integer format. Foreign key for actor table |
| Film_id   | SMALLINT | Number assigned for film in a small integer format. Foreign key for film table. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

3.8 Actor

| Column | Data Type | Description |
|--|--------------------------|---|
| Actor_id  | SERIAL | Surrogate key for the actor written as serial type. |
| First_name | CHARACTER VARYING(45) | First name of the actors with maximum of 45 characters. |
| Last_name | CHARACTER VARYING(45) | Last name of the actors with maximum of 45 characters. |

| | | |
|-------------|----------------------------------|---|
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |
|-------------|----------------------------------|---|

3.9 Category

| Column | Data Type | Description |
|--------------|----------------------------------|---|
| Category_id🔑 | SERIAL | Surrogate key for the category written as serial. |
| Name | CHARACTER VARYING(25) | Name of the category with maximum of 25 characters. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

3.10 Language

| Column | Data Type | Description |
|--------------|----------------------------------|---|
| Language_id🔑 | SERIAL | Surrogate key for this table as serial type. |
| Name | CHARACTER VARYING(20) | name of the language with maximum of 20 characters. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

3.11 Address

| Column | Data Type | Description |
|-------------|--------------------------|--|
| Address_id🔑 | SERIAL | Surrogate key for the address table as serial type. |
| Address | CHARACTER VARYING(50) | Address for the staff, customer and store with maximum character of 50. |
| Address2 | CHARACTER VARYING(50) | Second part of the address for the staff, customer and store with maximum character of 50. |
| District | CHARACTER VARYING(20) | District of the address with maximum of 20 characters. |
| City_id🌐 | SMALLINT | Number assigned for the city written in small integer. Foreign key for city table. |

| | | |
|-------------|-------------------------------|---|
| Postal_code | CHARACTER VARYING(10) | Postal code of the address with maximum of 10 characters. |
| Phone | CHARACTER VARYING(20) | Phone number for each location with maximum of 20 characters. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

3.12 City

| Column | Data Type | Description |
|-------------|-------------------------------|---|
| City_id🔑 | SERIAL | Surrogate key for this table as a serial format. |
| City | CHARACTER VARYING(50) | Name of the city with maximum of 50 characters. |
| Country_id🌐 | SMALLINT | Number assigned for country written in small integer and foreign key for country table. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |

3.13 Country

| Column | Data Type | Description |
|-------------|-------------------------------|---|
| Country_id🔑 | SERIAL | Surrogate key for the country table as a serial format. |
| Country | CHARACTER VARYING(50) | Name of the country with maximum of 50 characters. |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Timestamp when the information was last updated. Written in YYYY-MM-DD and HH:MM:SS. Not including time zone. |