



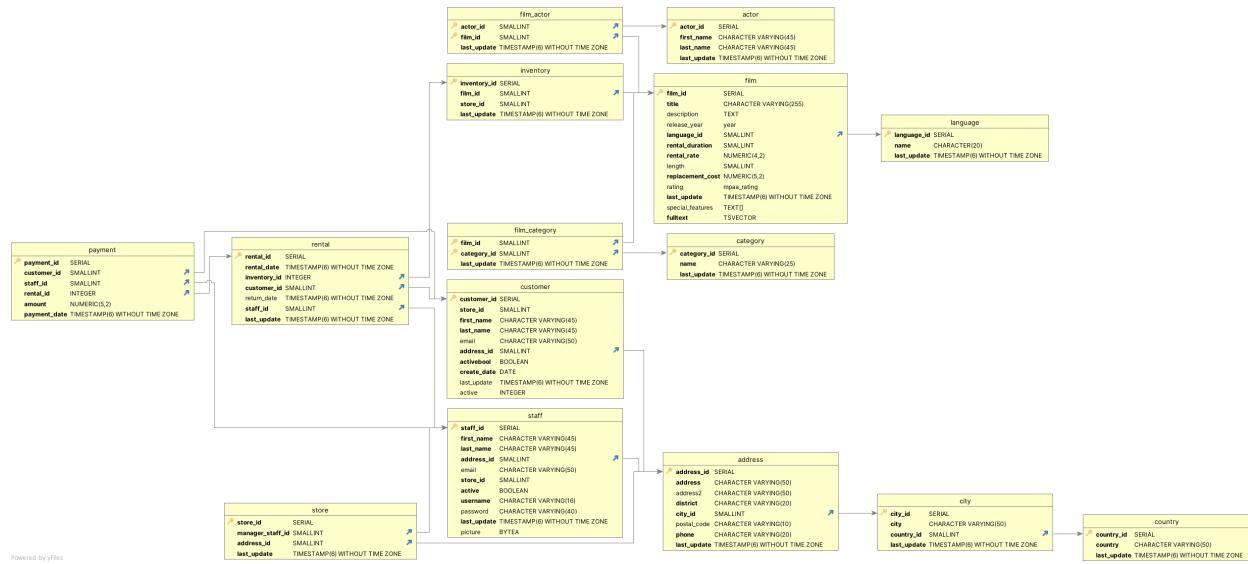
Rockbuster Stealth Data Dictionary

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Entity Relationship Diagram



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Fact Tables

2.1 Payment

| Payment | | |
|--------------|---------------------------------|----------------------------|
| Column | Data Type | Description |
| Payment_id | Serial | Unique payment identifier |
| Customer_id | Smallint | Unique customer identifier |
| Staff_id | Smallint | Unique staff identifier |
| Rental_id | Integer | Unique rental identifier |
| Amount | Numeric(5,2) | Amount of payment received |
| Payment_date | Timestamp (6) without time zone | Time and date of payment |

| Links to | |
|----------|--|
| Table | Join |
| Rental | Payment.rental_id = rental.rental_id |
| Customer | Payment.customer_id = Customer.customer_id |
| Staff | Payment.staff_id = staff.staff_id |

| Links from | |
|----------------------------|------|
| Table | Join |
| No links from other tables | |

| Keys | |
|-------------|-------------|
| Column | Key Type |
| Payment_id | Primary Key |
| Customer_id | Foreign Key |
| Staff_id | Foreign Key |
| Rental_id | Foreign Key |

2.2 Rental Table

| Rental | | |
|--------------|---------------------------------|------------------------------|
| Column | Data Type | Description |
| Rental_id | Serial | Unique rental identifier |
| Rental_date | Timestamp (6) without time zone | Time and date of rental |
| Inventory_id | Integer | Unique inventory identifier |
| customer_id | smallint | Unique customer identifier |
| Return_date | Timestamp (6) without time zone | Time and date of return |
| Staff_id | Smallint | Unique staff identifier |
| Last_update | Timestamp (6) without time zone | Time and date of last update |

| Links to | |
|-----------|--|
| Table | Join |
| Inventory | Rental.inventory_id = inventory.inventory_id |
| Customer | Rental.customer_id = customer.customer_id |
| Staff | Rental.staff_id = staff.staff_id |

| Links from | |
|------------|--------------------------------------|
| Table | Join |
| Payment | Rental.rental_id – payment.rental_id |

| Keys | |
|--------------|-------------|
| Column | Key Type |
| Rental_id | Primary key |
| Inventory_id | Foreign key |
| Customer_id | Foreign key |
| Staff_id | Foreign key |

Dimensions Tables

3.1 Customer

| Customer | | |
|--------------------|---------------------------------|--|
| Customer_id | Serial | Unique customer identifier |
| Store_id | Smallint | Unique store identifier |
| First_name | Character varying (45) | First name of customer |
| Last_name | Character varying (45) | Last name of customer |
| Email | Character varying (50) | Email of customer |
| Address_id | Smallint | Unique address identifier |
| Activebool | Boolean | Status of whether a customer is active |
| Create_date | Date | Date of customer profile creation |
| Last_update | Timestamp (6) without time zone | Time and date of last update |
| Active | Integer | Active status represented by 1 or 0 |

| Links to | |
|-----------------|--|
| Table | Join |
| Address | Customer.address_id = address.address_id |

| Links from | |
|-------------------|--|
| Table | Join |
| rental | Customer.customer_id = rental.customer_id |
| Payment | Customer.customer_id = payment.customer_id |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| Customer_id | Primary key |
| Address_id | Foreign Key |

3.2 Store

| Store | | |
|------------------|---------------------------------|--------------------------------|
| Store_id | Serial | Unique store identifier |
| Manager_Staff_id | Smallint | Unique manager identifier |
| Address_id | Smallint | Unique address identifier |
| Last-update | Timestamp (6) without time zone | Time and date of last update |

| Links to | |
|-----------------|---|
| Table | Join |
| Staff | Store.manager_staff_id = staff.staff_id |
| Address | Store.address_id = address.address_id |

| Links from | |
|----------------------------|-------------|
| Table | Join |
| Links from no other tables | |

| Keys | |
|------------------|-----------------|
| Column | Key Type |
| Store_id | Primary key |
| Manager_Staff_id | Foreign Key |
| Address_id | Foreign Key |

3.3 Staff

| Staff | | |
|-----------------|---------------------------------|--|
| Staff_id | Serial | Unique staff identifier |
| First_name | Character varying (45) | First name of staff |
| Last_name | Character varying (45) | Last name of staff |
| Email | Character varying (50) | Email of staff |
| Store_id | Smallint | Unique store identifier |
| Activebool | Boolean | Status of whether a staff member is active |
| Username | Character varying (16) | Staff's username |
| Password | Character varying (40) | Staff's password |
| Last_update | Timestamp (6) without time zone | Time and date of last staff profile update |
| Picture | Bytea | Picture of staff member |

| Links to | | |
|-----------------|---------------------------------------|--|
| Table | Join | |
| Address | Staff.address_id = address.address_id | |

| Links from | | |
|-------------------|-----------------------------------|--|
| Table | Join | |
| Rental | Staff.staff_id = rental.staff_id | |
| Payment | Staff.staff_id = payment.staff_id | |
| Store | Staff.staff_id = store.staff_id | |

| Keys | | |
|---------------|-----------------|--|
| Column | Key Type | |
| Staff_id | Primary key | |
| Address_id | Foreign Key | |

3.4 Address

| Address | | |
|-------------------|---------------------------------|----------------------------------|
| Address_id | Serial | Unique address identifier |
| Address | Character varying (50) | First line of address |
| Address2 | Character varying (50) | Second line of address |
| District | Character varying (20) | District of address |
| City_id | Smallint | Unique city identifier |
| Postal_code | Character varying (10) | Postal code of address |
| Phone | Character varying (10) | Phone number of address |
| Last_update | Timestamp (6) without time zone | Last update of address |

| Links to | | |
|-----------------|--------------------------------|--|
| Table | Join | |
| city | Address.city_id = city.city_id | |

| Links from | | |
|-------------------|--|--|
| Table | Join | |
| Staff | Address.address_id = staff.address_id | |
| Customer | Address.address_id = customer.address_id | |
| Store | Address.address_id = store.address_id | |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| Address_id | Primary key |
| City_id | Foreign Key |

3.5 City

| City | | |
|----------------|---------------------------------|-------------------------------|
| City_id | Serial | Unique city identifier |
| City | Character varying (50) | Name of city |
| Country_id | Smallint | Unique country identifier |
| Last_update | Timestamp (6) without time zone | Last update of city |

| Links to | |
|-----------------|--------------------------------------|
| Table | Join |
| Country | City.country_id = country.country_id |

| Links from | |
|-------------------|--------------------------------|
| Table | Join |
| Address | City.city_id = address.city_id |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| City_id | Primary key |
| Country_id | Foreign Key |

3.6 Country

| Country | | |
|-------------|---------------------------------|---------------------------|
| Country_id | Serial | Unique country identifier |
| Country | Character varying (50) | Name of country |
| Last_update | Timestamp (6) without time zone | Last update of country |

| Links to | |
|--------------------------|------|
| Table | Join |
| Links to no other tables | |

| Links from | |
|------------|--------------------------------------|
| Table | Join |
| City | Country.country_id = city.country_id |

| Keys | |
|------------|-------------|
| Column | Key Type |
| Country_id | Primary key |

3.7 Film

| Film | | |
|------------------|---------------------------------|---|
| Film_id | Serial | Unique film identifier |
| Title | Character varying (255) | Title of film |
| Description | Text | Description of film |
| Release_year | Year | Film release year |
| Language_id | Smallint | Unique language identifier |
| Rental_Duration | Smallint | Duration of rental |
| Rental_Rate | Numeric(4,2) | Rate of rental |
| Length | Smallint | Length of film |
| Replacement_cost | Numeric(5,2) | Cost to replace film |
| Rating | Mpaa_rating | Rating of film |
| Last_update | Timestamp (6) without time zone | Last update of film profile |
| Special_features | Text[] | Special features of film |
| Fulltextt | Tsvector | Full text index. Information about significant words. |

| Links to | |
|-----------------|---|
| Table | Join |
| Language | Film.language_id = language.language_id |

| Links from | |
|-------------------|--------------------------------------|
| Table | Join |
| Film_actor | Film.film_id = film_actor.film_id |
| Inventory | Film.film_id = inventory.film_id |
| Film_category | Film.film_id = film_category.film_id |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| film_id | Primary key |
| Language_id | Foreign Key |

3.8 Category

| Category | | |
|--------------------|---------------------------------|-----------------------------------|
| Category_id | Serial | Unique category identifier |
| Name | Character varying (25) | Name of category |
| Last_update | Timestamp (6) without time zone | Last update of category |

| Links to | |
|--------------------------|-------------|
| Table | Join |
| Links to no other tables | |

| Links from | |
|-------------------|--|
| Table | Join |
| Film_category | Category.category_id = film_category.category_id |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| Category_id | Primary key |

3.9 Film_Category

| Film_Category | | |
|----------------------|---------------------------------|-------------------------------|
| Film_id | Smallint | Unique film identifier |
| Category_id | Smallint | Unique category identifier |
| Last_update | Timestamp (6) without time zone | Last update of film |

| Links to | |
|-----------------|--|
| Table | Join |
| Film | Film_category.film_id = film.film_id |
| Category | Film_category.category_id = category.category_id |

| Links from | |
|----------------------------|-------------|
| Table | Join |
| Links from no other tables | |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| film_id | Primary key |
| Category_id | Primary Key |

3.10 Language

| Language | | |
|--------------------|---------------------------------|-----------------------------------|
| Language_id | Serial | Unique language identifier |
| Name | Character (2) | Name of language |
| Last_update | Timestamp (6) without time zone | Last update of language |

| Links to | |
|--------------------------|-------------|
| Table | Join |
| Links to no other tables | |

| Links from | |
|-------------------|---|
| Table | Join |
| Film | Language.language_id = film.language_id |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| Language_id | Primary key |

3.11 Actor

| Actor | | |
|-----------------|---------------------------------|--------------------------------|
| Actor_id | Serial | Unique actor identifier |
| First_name | Character varying (45) | First name of actor |
| Last_name | Character varying (45) | Last name of actor |
| Last_update | Timestamp (6) without time zone | Last update of actor profile |

| Links to | |
|--------------------------|-------------|
| Table | Join |
| Links to no other tables | |

| Links from | |
|-------------------|--------------------------------------|
| Table | Join |
| Film_actor | Actor.actor_id = film_actor.actor_id |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| Actor_id | Primary key |

3.12 Film_Actor

| Film_Actor | | |
|--------------------|--|----------------------------------|
| Actor_id | Smallint | Unique actor identifier |
| Film_id | Smallint | Unique film identifier |
| Last_update | Timestamp (6) without time zone | Last update of film actor |

| Links to | |
|-----------------|--------------------------------------|
| Table | Join |
| Actor | Film_actor.actor_id = actor.actor_id |
| Film | Film_actor.film_id = film.film_id |

| Links from | |
|----------------------------|-------------|
| Table | Join |
| Links from no other tables | |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| Actor_id | Primary key |
| Film_id | Primary key |

3.13 Inventory

| Inventory | | |
|---------------------|---------------------------------|------------------------------------|
| Inventory_id | Serial | Unique inventory identifier |
| Film_id | Smallint | Unique film identifier |
| Store_id | Smallint | Unique store identifier |
| Last_update | Timestamp (6) without time zone | Last update of inventory |

| Links to | |
|-----------------|----------------------------------|
| Table | Join |
| Film | inventory.film_id = film.film_id |

| Links from | |
|-------------------|--|
| Table | Join |
| Rental | Inventory.inventory_id = rental.inventory_id |

| Keys | |
|---------------|-----------------|
| Column | Key Type |
| Inventory_id | Primary key |
| Film_id | Foreign key |