

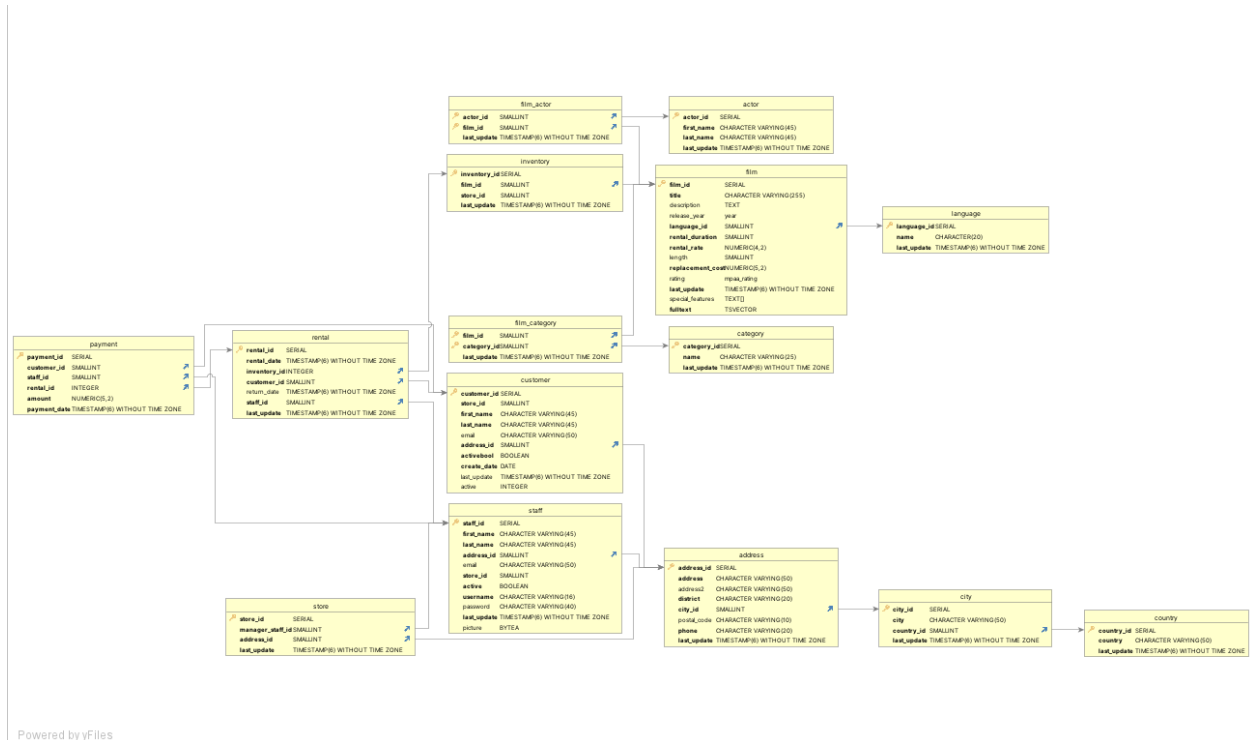
Rockbuster Stealth Data Dictionary

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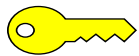
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Rock Buster Entity Relationship Diagram (ERD)



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Legend Key:



----- Primary Key



----- Foreign Key







----- Link TO Table





----- *Link FROM Table*

Fact Tables

1.1 Payment

| Key | Column Name | Data Type | Description |
|---|--------------|-----------------------------------|--|
|  | payment_id | SERIAL | Number given to identify a payment transaction |
|  | customer_id | SMALLINT | Number given to identify a customer |
|  | staff_id | SMALLINT | Number given to identify a staff member |
|  | rental_id | INTEGER | Number given to identify the rental item |
| | amount | NUMERICS (5,2) | The pay amount for the rental item |
| | payment_date | TIMESTAMP(S) WITHOUT TIME ZONE | Date the payment for the rental item was made |





Payment Connections

| Direction | Table | Connection |
|---|----------|--|
|  | Customer | payment.customer_id = customer.customer_id |
|  | Staff | payment.staff_id = staff.staff_id |


| | | |
|---|--------|--------------------------------------|
|  | Rental | payment.rental_id = rental.rental_id |
|---|--------|--------------------------------------|




Dimension Tables

2.1 Rental




| Key | Column Name | Data Type | Description |
|---|--------------|-----------------------------------|--|
|  | renta_id | SERIAL | Number given to identify the rental item |
| | rental_date | TIMESTAMP(S) WITHOUT TIME ZONE | Date a rent was made |
|  | inventory_id | INTEGER | Number given to identify an item in the inventory |
|  | customer_id | SMALLINT | Number given to identify a customer |
| | return_date | TIMESTAMP(S) WITHOUT TIME ZONE | Date a rental was returned |
|  | staff_id | SMALLINT | Number given to identity a staff member |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |

Rental Connections



| Direction | Table | Connection |
|---|-------|----------------------------------|
|  | Staff | rental.staff_id = staff.staff_id |

| | | |
|---|-----------|---|
|  | Customer | rental.customer_id = customer.customer_id |
|  | Inventory | rental.inventor_id = inventory.inventory_id |
|  | Payment | rental.rental_id = payment.rental_id |

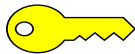

2.2 Store

| Key | Column Name | Data Type | Description |
|---|------------------|-----------------------------------|--|
|  | store_id | SERIAL | Number given to identify a store |
|  | manager_staff_id | SMALLINT | Number given to identify a staff member |
|  | address_id | SMALLINT | Number given to identify the stores address |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |



Store Connections

| Direction | Table | Connection |
|---|---------|---|
|  | Address | store.address_id = address.address_id |
|  | Staff | staff.staff_id = store.manager_staff_id |

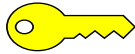


2.3 Film_actor

| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------------|--|
|  | actor_id | SMALLINT | Number given to identify an actor |
|  | film_id | SMALLINT | Number given to identify a movie |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |

Film_Actor Connections

| Direction | Table | Connection |
|---|-------|--------------------------------------|
|  | Film | film_actor.film_id = film.film_id |
|  | Actor | film_actor.actor_id = actor.actor_id |

2.4 Inventory

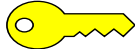

| Key | Column Name | Data Type | Description |
|---|--------------|-----------|---|
|  | inventory_id | SERIAL | Number given to identify an item in the inventory |
|  | film_id | SMALLINT | Number given to identify a movie |
|  | store_id | SMALLINT | Number given to identify a store |

| | | | |
|--|-------------|--------------------------------------|--|
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |
|--|-------------|--------------------------------------|--|



Inventory Connections

| Direction | Table | Connection |
|-----------|--------|--|
| → | Film | inventory.film_id = film.film_id |
| → | Store | inventory.store_id = store.store_id |
| ← | Rental | inventory.inventory_id = rental.inventory_id |

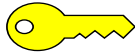


2.5 Film_category

| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------------|--|
|  | film_id | SMALLINT | Number given to identify a movie |
|  | category_id | SMALLINT | Number given to identify a film's category |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |

Film_category Connections

| Direction | Table | Connection |
|---|----------|--|
|  | Film | film_category.category_id = category.category_id |
|  | Category | film_category.film_id = film.film_id |

2.6 Customer

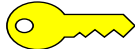

| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------|--|
|  | customer_id | SERIAL | Number given to identify a customer |
|  | store_id | SMALLINT | Number given to identify a store |
| | first_name | CHARACTER VARYING (45) | First name of a customer |
| | last_name | CHARACTER VARYING (45) | Last name of a customer |
| | email | CHARACTER VARYING (50) | Email address of a customer |
|  | address_id | SMALLINT | Number given to identify a customer's address |
| | activebool | BOOLEAN | Active True or False |
| | create_date | DATE | The date a customer account was created |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |


| | | | |
|--|--------|---------|---|
| | active | INTEGER | Indicates if the customer account is currently active |
|--|--------|---------|---|

Customer Connections





| Direction | Table | Connection |
|-----------|---------|--|
| → | Address | rental.staff_id = staff.staff_id |
| → | Store | rental.customer_id = customer.customer_id |
| ← | Rental | rental.inventory_id = inventory.inventory_id |
| ← | Payment | rental.rental_id = payment.rental_id |

2.7 Staff

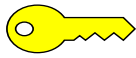
| Key | Column Name | Data Type | Description |
|---|-------------|------------------------|--|
|  | staff_id | SERIAL | Number given to identity a staff member |
| | first_name | CHARACTER VARYING (45) | First name of a staff member |
| | last_name | CHARACTER VARYING (45) | Last name of a staff member |
| | email | SMALLINT | Email address of a staff member |
|  | address_id* | CHARACTER VARYING (50) | Number given to identify the address of a staff member |

| | | | |
|---|-------------|--------------------------------|---|
|  | store_id | SMALLINT | Number given to identify a store |
| | active | BOOLEAN | True or False statements on staff members active status |
| | username | CHARACTER VARYING (16) | The username used by a staff member to access their account |
| | password | CHARACTER VARYING (40) | The password used by a staff member to login to their account |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |
| | picture | BYTEA | Picture of a staff member |


Staff Connections

| Direction | Table | Connection |
|---|---------|---------------------------------------|
|  | Address | staff.address_id = address.address_id |
|  | Store | staff.store_id = store.store_id |
|  | Rental | rental.rental_id = staff.rental_id |
|  | Payment | payment.staff_id = staff.staff_id |

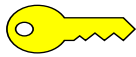
2.8 Actor


| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------|--|
|  | actor_id | SERIAL | Number given to identify an actor |
| | first_name | CHARACTER VARYING (45) | First name of an actor |
| | last_name | CHARACTER VARYING (45) | Last name of an actor |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |





Actor Connections

| Direction | Table | Connection |
|---|------------|--------------------------------------|
|  | Film_actor | actor.actor_id = film_actor.actor_id |

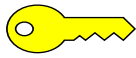
2.9 Film

| Key | Column Name | Data Type | Description |
|---|--------------|-------------------------|---|
|  | film_id | SERIAL | Number given to identify a film |
| | Title | CHARACTER VARYING (255) | The title of the film |
| | description | TEXT | Description related to the films content |
| | release_year | year | Year in which the film was released to the public |


| | | | |
|---|------------------|--------------------------------------|--|
|  | language_id | SMALLINT | Number given to a language used in a film |
| | rental_duration | SMALLINT | Duration length of the rental |
| | rental_rate | NUMERIC (4,2) | Rating corresponding to the film |
| | length | SMALLINT | Duration of the film |
| | replacement_cost | NUMERIC (5,2) | Cost of replacing a copy of the film |
| | rating | mpaa_rating | rating given to a film by the mpaa |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |
| | special_features | TEXT | Text describing special features related to the film |
| | fulltext | TSVECTOR | The amount of text used in the film |

| Direction | Table | Connection |
|---|---------------|---|
|  | Language | film.language_id = language.language_id |
|  | Film_actor | film.film_id = film_actor.film_id |
|  | Film_category | film.film_id = film_category.film_id |
|  | Inventory | film.film_id = inventory.film_id |

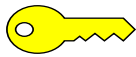
2.10 Category

| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------|--|
|  | category_id | SERIAL | Number given to identify a category |
| | name | CHARACTER VARYING (20) | The name of the category |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |


Category Connections

| Direction | Table | Connection |
|--|---------------|--|
|  | film_category | category.category_id = film_category.category_id |

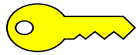

2.11 Language

| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------|--|
|  | language_id | SERIAL | Number given to identify a language |
| | name | CHARACTER (20) | Name of a language |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |

Language Connections

| Direction | Table | Connection |
|---|-------|---|
|  | film | film.language_id = language.language_id |

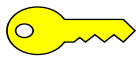

2.12 Address

| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------|--|
|  | address_id | SERIAL | Number given to identify a person's address |
| | address | CHARACTER VARYING (50) | Primary address |
| | address2 | CHARACTER VARYING (50) | Second or alternate address |
| | district | CHARACTER VARYING (20) | District of the address |
|  | city_id | SMALLINT | Number given to identify a city |
| | postal_code | CHARACTER VARYING (10) | The postal code of the address |
| | phone | CHARACTER VARYING (20) | Phone number |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |



Address Connections

| Direction | Table | Connection |
|-----------|---------|---------------------------------------|
| → | Staff | staff.address_id = address.address_id |
| → | Store | staff.store_id = store.store_id |
| ← | Rental | rental.rental_id = staff.rental_id |
| ← | Payment | payment.staff_id = staff.staff_id |
| → | Store | store.store_id = staff.store_id |


2.13 City

| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------|--|
|  | city_id | SERIAL | Number given to identify a city |
| | city | CHARACTER VARYING (50) | Name of a city |
|  | country_id | SMALLINT | Number given to identify a country |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |

City Connections

| Direction | Table | Connection |
|---|---------|--------------------------------------|
|  | Country | city.country_id = country.country_id |
|  | Address | city.city_id = address.city_id |

2.14 Country

| Key | Column Name | Data Type | Description |
|---|-------------|--------------------------------|--|
|  | country_id | SERIAL | Number given to identify a country |
| | country | CHARACTER VARYING (50) | Name of a country |
| | last_update | TIMESTAMP(S) WITHOUT TIME ZONE | Date and time of the latest change made to the table |

Country Connection

| Direction | Table | Connection |
|---|-------|--------------------------------------|
|  | City | city.country_id = country.country_id |