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Rockbuster Stealth

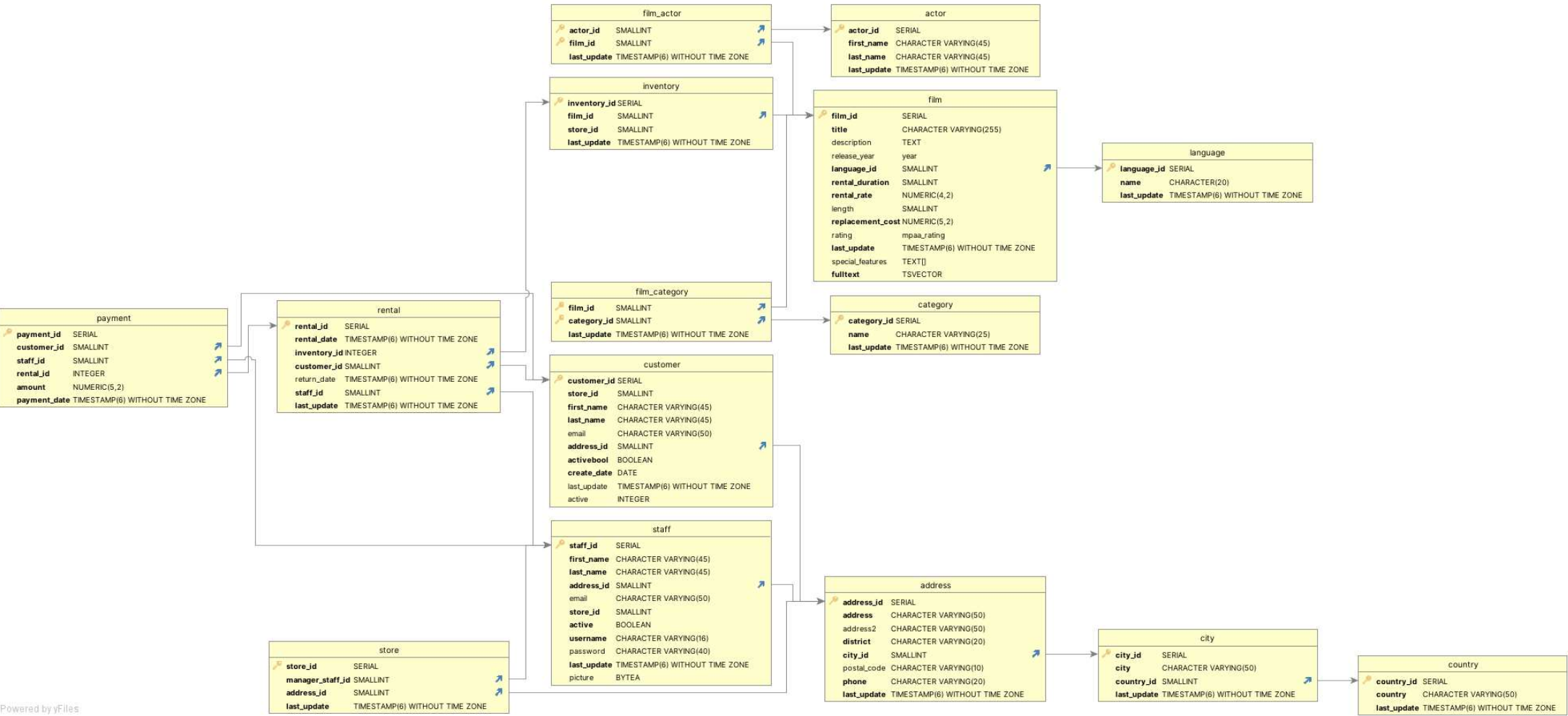
Data Dictionary

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table of contents

| | | |
|------|-----------------------------------|----|
| 1. | entity relationship diagram | 2 |
| 2. | fact tables | 3 |
| 2.1 | payment | 3 |
| 2.2 | rental | 4 |
| 3. | dimensions tables | 5 |
| 3.1 | film actor | 5 |
| 3.2 | film category | 5 |
| 3.3 | inventory | 6 |
| 3.4 | actor | 6 |
| 3.5 | customer | 7 |
| 3.6 | language | 7 |
| 3.7 | staff..... | 8 |
| 3.8 | category | 8 |
| 3.9 | address | 9 |
| 3.10 | city | 9 |
| 3.11 | film..... | 10 |
| 3.12 | store | 11 |



1. entity relationship diagram

2. fact tables

2.1 payment

| column | data type | description |
|---------------------|--------------------------------|----------------------------|
| payment_id | serial | unique payment identifier |
| customer_id | small int | unique customer identifier |
| staff_id | small int | unique staff identifier |
| rental_id | integer | unique rental identifier |
| amount | numeric | amount of payment |
| payment_date | timestamp(6) without time zone | the date of payment |

links to:

| table | join | description |
|-----------------|--|--|
| rental | payment.rental_id = rental.rental_id | foreign key constraint referencing rental_id |
| customer | payment.customer_id = customer.customer_id | foreign key constraint referencing customer_id |
| staff | payment.staff_id = staff.staff_id | foreign key constraint referencing staff_id |

keys:

| column | key type |
|--------------------|-------------|
| payment_id | primary key |
| customer_id | primary key |
| staff_id | primary key |
| rental_id | primary key |

2.2 rental

| column | data type | description |
|--------------|--------------------------------|-----------------------------|
| rental_id | serial | unique payment identifier |
| rental_date | timestamp(6) without time zone | the date of rental |
| inventory_id | integer | unique inventory identifier |
| customer_id | small int | unique customer identifier |
| return_date | timestamp w/o time zone | the date of return |
| staff_id | small int | unique staff identifier |
| last_update | timestamp w/o time zone | the time of last update |

links to:

| table | join | description |
|--------------|---|---|
| inventory_id | rental.inventory_id = inventory.inventory_id | inventory foreign key reference |
| customer_id | rental.customer_id = customer.customer_id | customer table foreign key reference |
| staff_id | rental.staff_id = staff.staff_id | staff table foreign key reference |

links from:

| table | join | description |
|---------|---|---------------------------------------|
| payment | rental.rental_id = payment.rental_id | references rental id in payment table |

keys:

| column | key type |
|--------------|-------------|
| rental_id | primary key |
| inventory_id | primary key |
| customer_id | primary key |
| staff_id | primary key |

3. dimensions tables

3.1 film actor

| column | data type | description |
|--------------------|-------------------------|----------------------------|
| actor_id | small int | unique identifier of actor |
| film_id | small int | unique identifier of film |
| last_update | timestamp w/o time zone | time of last update |

links to:

| table | join | description |
|--------------|--------------------------------------|--------------------------------------|
| actor | film_actor.actor_id = actor.actor_id | references film actor to actor table |
| film | film_actor.film_id = film.film_id | references film actor to film table |

keys:

| column | key type |
|-----------------|-------------|
| actor_id | primary key |
| film_id | primary key |

3.2 film category

| column | data type | description |
|--------------------|-------------------------|-------------------------------|
| film_id | small int | unique identifier of film |
| category_id | small int | unique identifier of category |
| last_update | timestamp w/o time zone | the time of last update |

links to:

| table | join | description |
|-----------------|--|--|
| film | film_category.film_id = film.film_id | references film category to film table |
| category | film_category.category_id = category.category_id | references film category to category table |

keys:

| column | key type |
|--------------------|-------------|
| film_id | primary key |
| category_id | primary key |

3.3 inventory

| column | data type | description |
|---------------------|-------------------------|--------------------------------|
| inventory_id | serial | unique identifier of inventory |
| film_id | small int | unique identifier of film |
| store_id | small int | unique identifier of store |
| last_update | timestamp w/o time zone | the time of last update |

links to:

| table | join | description |
|--------------|-------------------------------------|--|
| film | inventory.film_id = film.film_id | references inventory to film table |
| store | inventory.store_id = store.store_id | references film inventory to store table |

links from:

| table | join | description |
|---------------|--|--|
| rental | inventory.inventory_id = rental.inventory_id | references inventory from rental table |

keys:

| column | key type |
|---------------------|-------------|
| inventory_id | primary key |
| film_id | primary key |
| store_id | primary key |

3.4 actor

| column | data type | description |
|--------------------|-------------------------|----------------------------|
| actor_id | serial | unique identifier of actor |
| first_name | character varying(45) | first name of the actor |
| last_name | character varying(45) | last name of the actor |
| last_update | timestamp w/o time zone | the time of last update |

links from:

| table | join | description |
|-------------------|--------------------------------------|--|
| film_actor | actor.actor_id = film_actor.actor_id | references actor from film_actor table |

keys:

| column | key type |
|-----------------|-------------|
| actor_id | primary key |

3.5 customer

| column | data type | description |
|--------------------|-------------------------|--------------------------------------|
| customer_id | small int | unique identifier of the customer |
| store_id | small int | unique identifier of store |
| first_name | character varying (45) | first name of the customer |
| last_name | character varying (45) | last name of the customer |
| email | character varying (50) | email of the customer |
| address_id | small int | address of the customer |
| activebool | boolean | activity status of the customer |
| create_date | date | the date of creation of the customer |
| last_update | timestamp w/o time zone | the time of last update |
| active | integer | active status represented by 0 or 1 |

links to:

| table | join | description |
|----------------|--|--------------------------------------|
| store | customer.store_id = store.store_id | references customer to store table |
| address | customer.address_id = address.address_id | references customer to address table |

links from:

| table | join | description |
|----------------|--|--|
| rental | customer.customer_id = rental.customer_id | references customer from rental table |
| payment | customer.customer_id = payment.customer_id | references customer from payment table |

keys:

| column | key type |
|--------------------|-------------|
| customer_id | primary key |
| store_id | primary key |
| address_id | primary key |

3.6 language

| column | data type | description |
|--------------------|-------------------------|-----------------------------------|
| language_id | serial | unique identifier of the language |
| name | character varying(20) | language name |
| last_update | timestamp w/o time zone | the time of last update |

links from:

| table | join | description |
|-------------|---|-------------------------------------|
| film | language.language_id = film.language_id | references language from film table |

keys:

| column | key type |
|--------------------|-------------|
| language_id | primary key |

3.7 staff

| column | data type | description |
|--------------------|--------------------------------|-----------------------------------|
| staff_id | serial | unique identifier of staff member |
| first_name | character varying (45) | first name of staff member |
| last_name | character varying (45) | last name of staff member |
| address_id | small int | address of staff member |
| email | character varying (50) | staff member email address |
| store_id | small int | unique identifier of store |
| active | boolean | activation status of staff member |
| username | character varying (16) | staff member's username |
| password | character varying (40) | staff member's password |
| last_update | timestamp(6) without time zone | the time of last update |
| picture | bytea | the picture of staff member |

links to:

| table | join | description |
|----------------|---------------------------------------|-----------------------------------|
| address | staff.address_id = address.address_id | references staff to address table |
| store | staff.store_id = store.store_id | references staff to store table |

links from:

| table | join | description |
|----------------|-----------------------------------|-------------------------------------|
| payment | staff.staff_id = payment.staff_id | references staff from payment table |
| rental | staff.staff_id = rental.staff_id | references staff from rental table |

keys:

| column | key type |
|-------------------|-------------|
| staff_id | primary key |
| store_id | foreign key |
| address_id | foreign key |

3.8 category

| column | data type | description |
|--------------------|-------------------------|-------------------------------|
| category_id | serial | unique identifier of category |
| name | character varying(25) | name of category |
| last_update | timestamp w/o time zone | time of last update |

links from:

| table | join | description |
|----------------------|--|--|
| film_category | category.category_id = film_category.category_id | references category from film_category table |

keys:

| column | key type |
|--------------------|-------------|
| category_id | primary key |

3.9 address

| column | data type | description |
|--------------------|-------------------------|-------------------------------------|
| address_id | serial | unique identifier of the address |
| address | character varying(50) | 1 st line of the address |
| address2 | character varying(50) | 2 nd line of the address |
| district | character varying(20) | district of the address |
| city_id | small int | unique identifier of the city |
| postal_code | character varying(10) | postal code |
| phone | character varying(20) | phone number |
| last_update | timestamp w/o time zone | the time of last update |

links to:

| table | join | description |
|-------------|--------------------------------|----------------------------------|
| city | address.city_id = city.city_id | references address to city table |

links from

| table | join | description |
|-----------------|--|--|
| store | address.address_id = store.address_id | references address from store table |
| staff | address.address_id = staff.address_id | references address from staff table |
| customer | address.address_id = customer.address_id | references address from customer table |

keys:

| column | key type |
|-------------------|-------------|
| address_id | primary key |
| city_id | foreign key |

3.10 city

| column | data type | description |
|-------------------|-----------------------|----------------------------------|
| city_id | serial | unique identifier of the city |
| city | character varying(50) | name of the city |
| country_id | small int | unique identifier of the country |

link to:

| table | join | description |
|----------------|--------------------------------------|----------------------------------|
| country | city.country_id = country.country_id | references city to country table |

link from:

| table | join | description |
|----------------|--------------------------------|------------------------------------|
| address | city.city_id = address.city_id | references city from address table |

keys:

| column | key type |
|-------------------|-------------|
| city_id | primary key |
| country_id | foreign key |

3.11 film

| column | data type | description |
|-------------------------|-------------------------|---|
| film_id | serial | unique identifier of the film |
| title | character varying(255) | title of the film |
| description | text | description of the film |
| release_year | year | year of film release |
| language_id | small int | language of the film |
| rental_duration | small int | duration of the rental |
| rental_rate | numeric(4,2) | rate of the rental |
| length | small int | length of the film |
| replacement_cost | numeric(5,2) | the cost of replacing the film |
| rating | mpaa_rating | rating of the film |
| last_update | timestamp w/o time zone | the time of last update |
| special_features | text[] | special features of the film |
| fulltext | tsvector | full text index; key words and their location |

links to:

| table | join | description |
|-----------------|---|-----------------------------------|
| language | film.language_id = language.language_id | references film to language table |

links from:

| table | join | description |
|----------------------|---|--|
| inventory | film.film_id = inventory.film_id | references film from inventory table |
| film_actor | film.film_id = film_actor.film_id | references film from film_actor table |
| film_category | film.film_id = film_category.film_id | references film from film_category table |

keys:

| column | key type |
|--------------------|-------------|
| film_id | primary key |
| language_id | foreign key |

3.12 store

| column | data type | description |
|-------------------------|--------------------------------|----------------------------------|
| store_id | serial | unique identifier of the store |
| manager_staff_id | small int | unique identifier of the manager |
| address_id | small int | unique identifier of the address |
| last_update | timestamp(6) without time zone | the time of last update |

links to:

| table | join | description |
|----------------|---------------------------------------|-----------------------------------|
| address | store.address_id = address.address_id | references store to address table |
| staff | store.manage_staff_id = staff_id | references store to staff table |

links from:

| table | join | description |
|------------------|-------------------------------------|---------------------------------------|
| staff | store.store_id = staff.store_id | references store from staff table |
| inventory | store.store_id = inventory.store_id | references store from inventory table |

keys:

| column | key type |
|-------------------------|-------------|
| store_id | primary key |
| manager_staff_id | foreign key |
| address_id | foreign key |