

Data Dictionary

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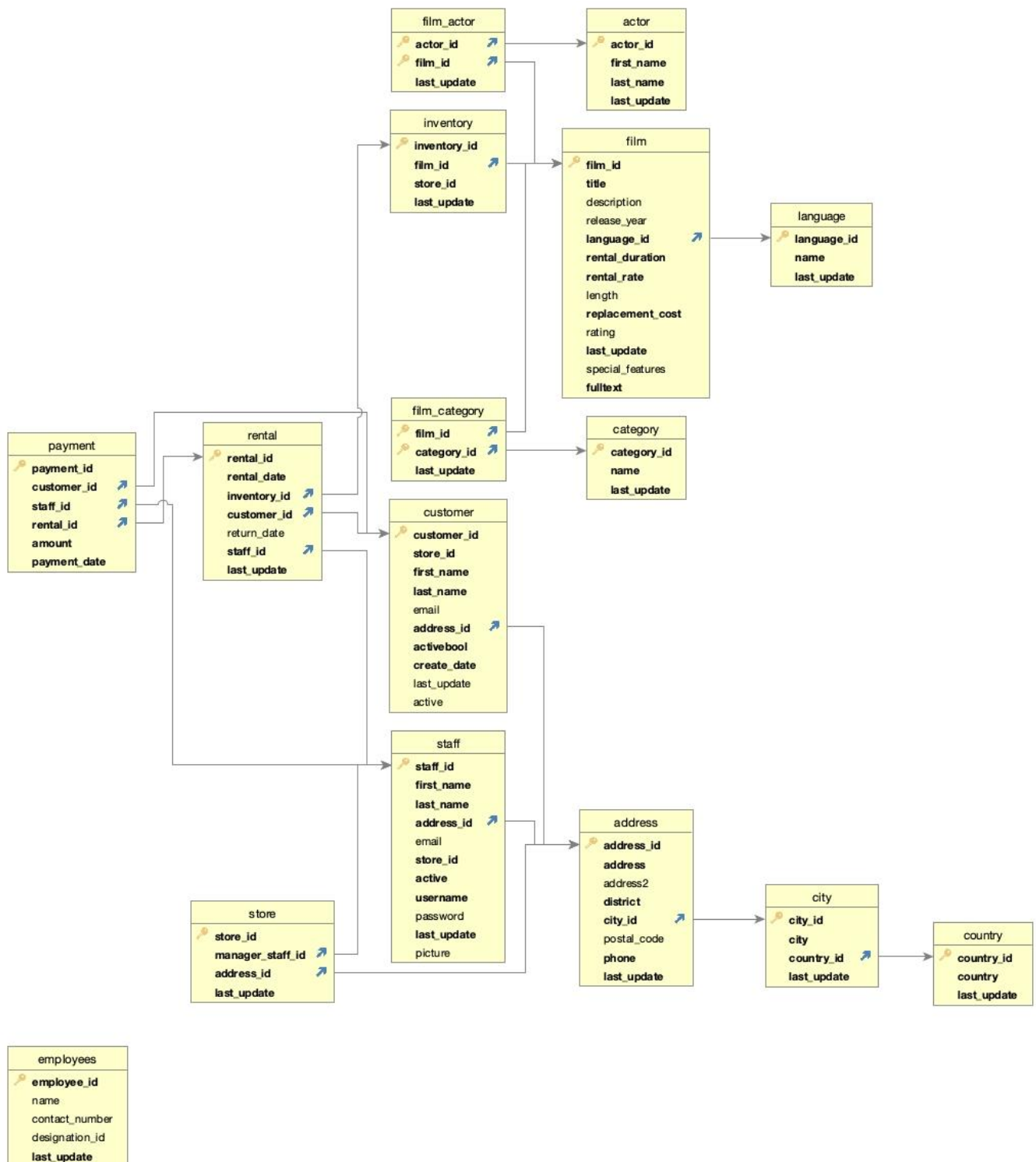
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ENTITY RELATIONSHIP DIAGRAM (ERD)







LEGEND



| | |
|---|-------------|
|  | Primary Key |
|  | Foreign Key |



FACT TABLE


| rental - fact table | | | | | |
|---|--------------|--------------------------------|---|------------|-----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | rental_id | SERIAL | Identification number assigned to each rental order | payment | |
| | rental_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of rental | | |
|  | inventory_id | INTEGER | Inventory identification number | | inventory |
|  | customer_id | SMALLINT | Customer identification number | | customer |
| | return_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of return | | |
|  | staff_id | SMALLINT | Staff identification number processing rental order | | staff |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |


DIMENSION TABLE



| payment - dimension table | | | | | |
|---|--------------|--------------------------------|---|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | payment_id | SERIAL | Identification number assigned to each payment | | |
|  | customer_id | SMALLINT | Customer identification number | | customer |
|  | staff_id | SMALLINT | Staff identification number processing payment | | staff |
|  | rental_id | INTEGER | Identification number assigned to each rental order | | rental |
| | amount | NUMERIC (5,2) | Rental price | | |
| | payment_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time when payment made | | |



| inventory - dimension table | | | | | |
|---|--------------|--------------------------------|--|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | inventory_id | SERIAL | Inventory identification number | rental | |
|  | film_id | SMALLINT | Identification number assigned to each film | | film |
| | store_id | SMALLINT | Identification number assigned to each store | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |


| fim_actor - dimension table | | | | | |
|---|-------------|--------------------------------|---|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | actor_id | SMALLINT | Identification number assigned to each film actor | | actor |
|  | film_id | SMALLINT | Identification number assigned to each film | | film |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Staff identification number processing payment | | |



| actor - dimension table | | | | | |
|---|-------------|--------------------------------|---|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | actor_id | SERIAL | Identification number assigned to each film actor | film_actor | |
| | first_name | CHARACTER VARYING(45) | First name of the film actor | | |
| | last_name | CHARACTER VARYING(45) | Last name of the film actor | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |



| actor - dimension table | | | | | |
|---|-------------|--------------------------------|---|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | actor_id | SERIAL | Identification number assigned to each film actor | film_actor | |
| | first_name | CHARACTER VARYING(45) | First name of the film actor | | |
| | last_name | CHARACTER VARYING(45) | Last name of the film actor | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |




| film_category - dimension table | | | | | |
|---|-------------|--------------------------------|---|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | film_id | SERIAL | Identification number assigned to each film | | film |
|  | category_id | SMALLINT | Film category (comedy, action, etc.) | | category |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |



| film - dimension table | | | | | |
|---|------------------|--------------------------------|--|-----------------------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | film_id | SERIAL | Identification number assigned to each film | inventory, film_category | |
| | title | CHARACTER VARYING(25) | Film title | | |
| | description | TEXT | Short description of the film story (short summary) | | |
| | release_year | year | Release year of the film | | |
|  | language_id | SMALLINT | Identification number assigned to each language | | language |
| | rental_duration | SMALLINT | Duration of the film rental | | |
| | rental_rate | NUMERIC(4,2) | Total number of a film ever being rented | | |
| | length | SMALLINT | Length of film (in minutes) | | |
| | replacement_cost | NUMERIC(5,2) | Cost to re-order film in case defect or missing | | |
| | rating | mpaa_rating | Film rating | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |
| | special_feature | TEXT | Special feature included in the film (sign language is included, etc.) | | |
| | fulltext | TSVECTOR | | | |



| category - dimension table | | | | | |
|---|-------------|--------------------------------|--|---------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | category_id | SERIAL | Identification number assigned to each film category | film_category | |
| | name | CHARACTER VARYING(25) | Film category (comedy, action, etc.) | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |


| customer - dimension table | | | | | |
|---|-------------|--------------------------------|---|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | customer_id | SERIAL | Customer identification number | | |
| | store_id | SMALLINT | Identification number assigned to each 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) | Customer email address | | |
|  | address_id | SMALLINT | Customer address | | |
| | activebool | BOOLEAN | Whether or not this customer is active member | | |
| | create_date | DATE | Creation date of membership | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |
| | active | INETEGER | Membership status (silver, gold, etc.) | | |

| staff - dimension table | | | | | |
|---|-------------|--------------------------------|---|--------------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | staff_id | SERIAL | Staff identification number processing rental order | payment, rental | |
| | first_name | CHARACTER VARYING(45) | First name of the staff | | |
| | last_name | CHARACTER VARYING(45) | Last name of the staff | | |
|  | address_id | SMALLINT | Staff address | | address |
| | email | CHARACTER VARYING(50) | Staff email address | | |
| | store_id | SMALLINT | Identification number assigned to each store | | |
| | active | BOOLEAN | Whether or not this staff is active employee | | |
| | username | CHARACTER VARYING(16) | Staff username | | |
| | password | CHARACTER VARYING(40) | Staff account's password | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |
| | picture | BYTEA | Staff password | | |

| store - dimension table | | | | | |
|--|------------------|--------------------------------|--|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | store_id | SERIAL | Identification number assigned to each store | | |
|  | manager_staff_id | SMALLINT | Identification number assigned to each store manager | | staff |
|  | address_id | SMALLINT | Identification number assigned to store location | | address |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |

| address - dimension table | | | | | |
|---|-------------|--------------------------------|--|---------------------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | address_id | SERIAL | Identification number assigned to store location | customer, staff, store | |
| | address | CHARACTER VARYING(50) | Store address | | |
| | address2 | CHARACTER VARYING(50) | Supplementary store address information | | |
| | district | CHARACTER VARYING(20) | Store district | | |
|  | city_id | SMALLINT | City name where store is located | | city |
| | postal_code | CHARACTER VARYING(10) | Postal code of city where store is located | | |
| | phone | CHARACTER VARYING(20) | Store phone | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |

| city - dimension table | | | | | |
|---|-------------|--------------------------------|--|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | city_id | | City identification numbe where store is located | address | |
| | city | CHARACTER VARYING(50) | City name where store is located | | |
|  | country_id | SMALLINT | Country identification number where store is located | | country |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |

| country - dimension table | | | | | |
|---|-------------|--------------------------------|--|------------|----------|
| Key | Columns | Data Type | Description | Links From | Links To |
|  | country_id | SERIAL | Country identification number where store is located | city | |
| | country | CHARACTER VARYING(50) | Country name where store is located | | |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Last update of the data entry | | |