

Rockbuster Stealth

Data Dictionary

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Entity-Relationship Diagram



Tables

Payment

| Columns | Data Type | Description |
|--------------|-----------------------------------|--|
| Payment_id | SERIAL | Unique number for the transaction |
| Customer_id | SMALLINT | Unique number for the customer |
| Staff_id | SMALLINT | Unique number for the staff member involved in transaction |
| Rental_id | INTEGER | Unique number for the rental |
| Amount | NUMERIC(5,2) | Money exchanged in transaction |
| Payment_date | TIMESTAMP(6) WITHOUT TIME ZONE | When the transaction took place |

Linked From

| Table | Join |
|----------|--|
| Customer | payment.customer_id=customer.customer_id |
| Rental | payment.rental_id=rental.rental_id |
| Staff | payment.staff_id=staff.staff_id |

Unique Keys

| Columns | Key |
|-------------|-----|
| payment_id | PK |
| customer_id | FK |
| rental_id | FK |
| staff_id | FK |

Rental

| Columns | Data Type | Description |
|--------------|-----------------------------------|--|
| Rental_id | SERIAL | Unique number for the rental |
| Rental_date | TIMESTAMP(6) WITHOUT TIME ZONE | When the rental took place |
| Inventory_id | INTEGER | Unique number for the movie in the inventory |
| Customer_id | SMALLINT | Unique number for the customer |
| Return_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date the rental was returned |
| Staff_id | SMALLINT | Unique number for the staff member involved in transaction |
| Last_update | TIMESTAMP(6) WITHOUT TIME ZONE | The last time rental info for this movie was updated |

Links To

| Table | Join |
|---------|------------------------------------|
| payment | payment.rental_id=rental.rental_id |

Linked From

| Table | Join |
|-----------|--|
| Inventory | rental.inventory_id=inventory.inventory_id |
| Customer | rental.customer_id=customer.customer_id |
| Staff | rental.staff_id=staff.staff_id |

Unique Keys

| Columns | Key |
|--------------|-----|
| rental_id | PK |
| inventory_id | FK |

| | |
|-------------|----|
| customer_id | FK |
| staff_id | FK |

Customer

| Columns | Data Type | Description |
|-------------|-------------------------------|--|
| Customer_id | SERIAL | Unique number for the customer |
| Store_id | SMALLINT | Unique number for the store |
| First_name | CHARACTER VARYING(45) | Customer's first name |
| Last_name | CHARACTER VARYING(45) | Customer's last name |
| Email | CHARACTER VARYING(50) | Customer's email |
| Address_id | SMALLINT | Unique number for the store address |
| Activebool | BOOLEAN | Is this an active customer? Using Tue/False |
| Create_date | DATE | When customer made their first purchase and their id created |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time customer info was updated |
| Active | INTEGER | Is this an active customer? Using 1's and 0's |

Links To

| Table | Join |
|---------|--|
| Payment | payment.customer_id=customer.customer_id |
| Rental | rental.customer_id=customer.customer_id |

Linked From

| Table | Join |
|---------|--|
| Address | customer.address_id=address.address_id |

Unique Keys

| Columns | Key |
|-------------|-----|
| customer_id | PK |
| store_id | FK |
| address_id | FK |

Staff

| Columns | Data Type | Description |
|------------|--------------------------|-------------------------------------|
| Staff_id | SERIAL | Unique number for the staff member |
| First_name | CHARACTER VARYING(45) | Staff member first name |
| Last_name | CHARACTER VARYING(45) | Staff member last name |
| Address_id | SMALLINT | Unique number for the store address |
| Email | CHARACTER VARYING(50) | Staff member email |
| Store_id | SMALLINT | Unique number for the store |
| Active | BOOLEAN | Staff member still active? |
| Username | CHARACTER VARYING(16) | Staff member username |
| Password | CHARACTER VARYING(40) | Staff member password |

| | | |
|-------------|----------------------------------|---|
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time staff member info was updated |
| Picture | BYTEA | Staff member picture |

Links To

| Table | Join |
|---------|---------------------------------|
| Payment | payment.staff_id=staff.staff_id |
| Rental | rental.staff_id=staff.staff_id |

Linked From

| Table | Join |
|---------|-------------------------------------|
| Address | staff.address_id=address.address_id |
| Store | staff.store_id=store.store_id |

Unique Keys

| Columns | Key |
|------------|-----|
| staff_id | PK |
| address_id | FK |
| store_id | FK |

Inventory

| Columns | Data Type | Description |
|--------------|-----------|--|
| Inventory_id | SERIAL | Unique number for the movie in the inventory |
| Film_id | SMALLINT | Unique number for the film |
| Store_id | SMALLINT | Unique number for the store |

| | | |
|-------------|----------------------------------|--------------------------------------|
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time inventory info was updated |
|-------------|----------------------------------|--------------------------------------|

Links To

| Table | Join |
|--------|--|
| Rental | rental.inventory_id=inventory.inventory_id |

Linked From

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

Unique Keys

| Columns | Key |
|--------------|-----|
| inventory_id | PK |
| film_id | FK |
| store_id | FK |

Film Actor

| Columns | Data Type | Description |
|-------------|----------------------------------|---------------------------------------|
| Actor_id | SMALLINT | Unique number for the film actor |
| Film_id | SMALLINT | Unique number for the film |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time film-actor info was updated |

Linked From

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

Unique Keys

| Columns | Key |
|----------|-----|
| actor_id | PK |
| film_id | FK |

Actor

| Columns | Data Type | Description |
|-------------|----------------------------------|----------------------------------|
| Actor_id | SERIAL | Unique number for the film actor |
| First_name | CHARACTER VARYING(45) | Film actor first name |
| Last_name | CHARACTER VARYING(45) | Film actor last name |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time actor info was updated |

Links To

| Table | Join |
|------------|------------------------------------|
| Film Actor | film_actor.actor_id=actor.actor_id |

Unique Keys

| Columns | Key |
|----------|-----|
| actor_id | PK |

Film

| Columns | Data Type | Description |
|------------------|-------------------------------|---|
| Film_id | SERIAL | Unique number for the film |
| Title | CHARACTER VARYING(255) | Film title |
| Description | TEXT | Film description |
| Release_year | YEAR | Year film was released |
| Language_id | SMALLINT | Unique number for the language film |
| Rental_duration | SMALLINT | How many days the film was rented for |
| Rental_rate | NUMERIC(4,2) | The rate the movie is rented for |
| Length | SMALLINT | How many minutes the film is in length |
| Replacement_cost | NUMERIC(5,2) | How much it would cost to replace the film |
| Rating | MPAA_RATING | Family rating (PG, PG-13, R, etc.) |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time film info was updated |
| Special_features | TEXT[] | Included features like deleted scenes, trailers, etc. |
| Fulltext | TSVECTOR | Words associated with the film? |

Links To

| Table | Join |
|------------|---------------------------------|
| Film Actor | film_actor.film_id=film.film_id |
| Inventory | inventory.film_id=film.film_id |

| | |
|---------------|------------------------------------|
| Film Category | film_category.film_id=film.film_id |
|---------------|------------------------------------|

Linked From

| Table | Join |
|----------|---------------------------------------|
| Language | film.language_id=language.language_id |

Unique Keys

| Columns | Primary Key |
|-------------|-------------|
| film_id | PK |
| language_id | FK |

Language

| Columns | Data Type | Description |
|-------------|----------------------------------|--|
| Language_id | SERIAL | Unique number for the language film |
| Name | CHARACTER(20) | Name of the language |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time film language info was updated |

Links To

| Table | Join |
|-------|---------------------------------------|
| Film | film.language_id=language.language_id |

Unique Keys

| Columns | Key |
|-------------|-----|
| language_id | PK |

Category

| Columns | Data Type | Description |
|-------------|-------------------------------|-------------------------------------|
| Category_id | SERIAL | Unique number for film category |
| Name | CHARACTER VARYING(25) | Category name |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time category info was updated |

Links To

| Table | Join |
|---------------|--|
| Film Category | film_category.category_id=category.category_id |

Unique Keys

| Columns | Key |
|-------------|-----|
| category_id | PK |

Film Category

| Columns | Data Type | Description |
|-------------|-------------------------------|--|
| Film_id | SMALLINT | Unique number for the film |
| Category_id | SMALLINT | Unique number for film category |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time film-category info was updated |

Linked From

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

Unique Keys

| Columns | Key |
|-------------|-----|
| film_id | PK |
| category_id | PK |

Store

| Columns | Data Type | Description |
|------------------|----------------------------------|-------------------------------------|
| Store_id | SERIAL | Unique number for the store |
| Manager_staff_id | SMALLINT | Unique number for manager of staff |
| Address_id | SMALLINT | Unique number for the store address |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time store info was updated |

Links To

| Table | Join |
|-------|-------------------------------|
| Staff | staff.store_id=store.store_id |

Linked From

| Table | Join |
|---------|-------------------------------------|
| Address | store.address_id=address.address_id |

Unique Keys

| Columns | Key |
|------------------|-----|
| store_id | PK |
| manager_staff_id | FK |
| address_id | FK |

Address

| Columns | Data Type | Description |
|-------------|-------------------------------|--|
| Address_id | SERIAL | Unique number for the store address |
| Address | CHARACTER VARYING(50) | Store address |
| Address2 | CHARACTER VARYING(50) | Store address, second line |
| District | CHARACTER VARYING(20) | Store district |
| City_id | SMALLINT | Unique number for store city |
| Postal_code | CHARACTER VARYING(10) | Postal code |
| Phone | C | Store phone number |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time store address info was updated |

Links To

| Table | Join |
|----------|--|
| Customer | customer.address_id=address.address_id |
| Staff | staff.address_id=address.address_id |
| Store | store.address_id=address.address_id |

Linked From

| Table | Join |
|-------|------------------------------|
| City | address.city_id=city.city_id |

Unique Keys

| Columns | Key |
|------------|-----|
| address_id | PK |
| city_id | FK |

City

| Columns | Data Type | Description |
|-------------|-------------------------------|---|
| City_id | SERIAL | Unique number for store city |
| City | CHARACTER VARYING(50) | Store city |
| Country_id | SMALLINT | Unique number for store's country |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time store's city info was updated |

Links To

| Table | Join |
|---------|------------------------------|
| Address | address.city_id=city.city_id |

Linked From

| Table | Join |
|---------|------------------------------------|
| Country | city.country_id=country.country_id |

Unique Keys

| Columns | Key |
|------------|-----|
| city_id | PK |
| country_id | FK |

Country

| Columns | Data Type | Description |
|-------------|----------------------------------|--|
| Country_id | SERIAL | Unique number for store's country |
| Country | CHARACTER VARYING(50) | Country of the store |
| Last_update | TIMESTAMP(6) WITHOUT TIMEZONE | Last time store's country info was updated |

Links To

| Table | Join |
|-------|------------------------------------|
| City | city.country_id=country.country_id |

Unique Keys

| Columns | Key |
|------------|-----|
| country_id | PK |