

A woman with long blonde hair and glasses is leaning over a desk, working on a laptop. She is holding a pen near her mouth. The background is a blurred office environment with other people. The text 'ROCKBUSTER' is overlaid in large white letters, followed by a horizontal orange line.

# ROCKBUSTER

DATA DICTIONARY

*2017-11-01*

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### Legend

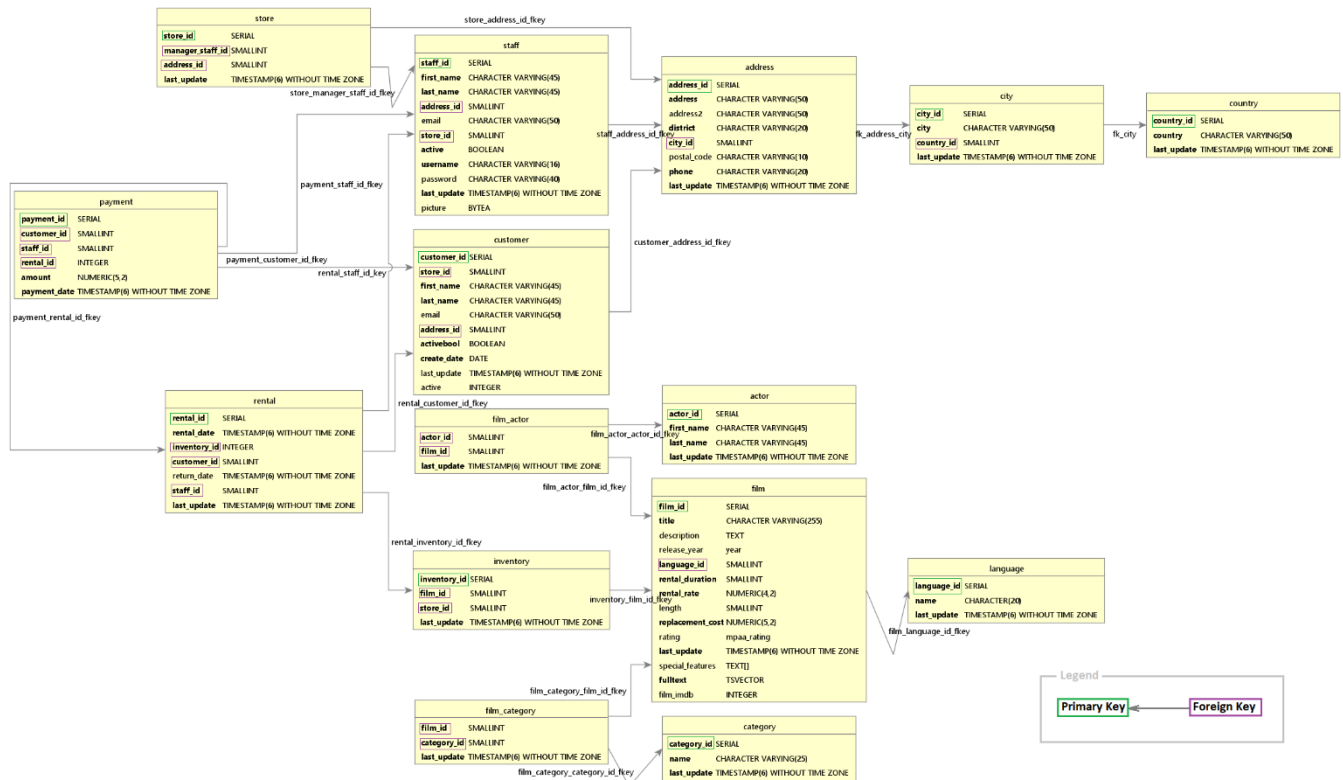


= Primary Key







= Foreign Key

## ENTITY RELATIONSHIP DIAGRAM







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## 1. TABLE: PAYMENT

| Columns   |              |                                   |   |
|---|--------------|-----------------------------------|---|
|   | Name         | Data Type                         | Description                                       |
|  | payment_id   | SERIAL                            | System assigned numeric ID for the purchase       |
|  | customer_id  | SMALLINT                          | Customer Key for person who made the payment      |
|  | staff_id     | SMALLINT                          | Staff Key for employee who authorized the payment |
|  | rental_id    | INTEGER                           | Rental Key linking to info about the item rented  |
|   | amount       | NUMERIC(5,2)                      | Amount of the transaction                         |
|   | payment_date | TIMESTAMP(6)<br>WITHOUT TIME ZONE | Time of the transaction                           |

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




## 2. TABLE: RENTAL

| Columns   |              |                                   |  |
|---|--------------|-----------------------------------|--|
|   | Name         | Data Type                         | Description                                      |
|    | rental_id    | SERIAL                            | System assigned numeric ID for the rental        |
|   | rental_date  | TIMESTAMP(6)<br>WITHOUT TIME ZONE | Date the rental began                            |
|    | inventory_id | INTEGER                           | Inventory Key for the stock item                 |
|    | customer_id  | SMALLINT                          | Customer Key for person who made the rental      |
|   | return_date  | TIMESTAMP(6)<br>WITHOUT TIME ZONE | Date the rental is due back                      |
|  | staff_id     | SMALLINT                          | Staff Key for employee who authorized the rental |
|   | last_update  | TIMESTAMP(6)<br>WITHOUT TIME ZONE | Date the entry was last updated                  |

| 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 |



### 3. TABLE: STORE

| Columns   |                  |                                   |  |
|---|------------------|-----------------------------------|--|
|   | Name             | Data Type                         | Description                                      |
|  | store_id         | SERIAL                            | System assigned numeric ID for the store         |
|  | manager_staff_id | SMALLINT                          | Staff Key unique ID for the manager of the store |
|  | address_id       | SMALLINT                          | Address Key unique ID                            |
|   | last_update      | TIMESTAMP(6)<br>WITHOUT TIME ZONE | Date the entry was last updated                  |

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




| Links from |                                     |
|------------|-------------------------------------|
| Table      | Join                                |
| Staff      | store.store_id = payment.store_id   |
| Customer   | store.store_id = customer.store_id  |
| Inventory  | store.store_id = inventory.store_id |

## 4. TABLE: FILM\_ACTOR

| Columns   |             |                                   |                                 |
|---|-------------|-----------------------------------|---------------------------------|
|   | Name        | Data Type                         | Description                     |
|  | actor_id    | SMALLINT                          | Actor Key unique ID             |
|  | film_id     | SMALLINT                          | Film Key unique ID              |
|   | last_update | TIMESTAMP(6)<br>WITHOUT TIME ZONE | Date the entry was last updated |

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

## 5. TABLE: INVENTORY

| Columns   |              |                                   |   |
|---|--------------|-----------------------------------|---|
|   | Name         | Data Type                         | Description                                       |
|  | inventory_id | SERIAL                            | System assigned numeric ID for the inventory item |
|  | film_id      | SMALLINT                          | Film Key unique ID                                |
|  | store_id     | SMALLINT                          | Store Key unique ID                               |
|   | last_update  | TIMESTAMP(6)<br>WITHOUT TIME ZONE | Date the entry was last updated                   |



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

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






## 6. TABLE: FILM\_CATEGORY

---

| Columns   |             |                                   |                                 |
|---|-------------|-----------------------------------|---------------------------------|
|   | Name        | Data Type                         | Description                     |
|  | film_id     | SMALLINT                          | Film Key unique ID              |
|  | category_id | SMALLINT                          | Category Key unique ID          |
|   | last_update | TIMESTAMP(6)<br>WITHOUT TIME ZONE | Date the entry was last updated |

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




## 7. TABLE: CUSTOMER

| Columns   |             |                                |  |
|---|-------------|--------------------------------|--|
|   | Name        | Data Type                      | Description                                    |
|    | customer_id | SERIAL                         | System assigned numeric ID for the customer    |
|    | store_id    | SMALLINT                       | Store Key unique ID                            |
|   | first_name  | CHARACTER VARYING(45)          | Customer's first name (up to 45 characters)    |
|   | last_name   | CHARACTER VARYING(45)          | Customer's last name (up to 45 characters)     |
|   | email       | CHARACTER VARYING(50)          | Customer's email address (up to 50 characters) |
|  | address_id  | SMALLINT                       | Address Key unique ID                          |
|   | activebool  | BOOLEAN                        | Is customer active? True/False                 |
|   | create_date | DATE                           | Date of customer ID creation                   |
|   | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated                |
|   | active      | INTEGER                        | Is customer active? 1/0                        |

| Links to |  |
|----------|--|
| Table    | Join                                     |
| Store    | customer.store_id = store.store_id       |
| 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 |

## 8. TABLE: STAFF


| Columns   |             |                                |  |
|---|-------------|--------------------------------|--|
|   | Name        | Data Type                      | Description  |
|    | staff_id    | SERIAL                         | System assigned numeric ID for staff member            |
|   | first_name  | CHARACTER_VARYING(45)          | Staff member's first name (up to 45 characters)        |
|   | last_name   | CHARACTER_VARYING(45)          | Staff member's last name (up to 45 characters)         |
|    | address_id  | SMALLINT                       | Address Key unique ID                                  |
|   | email       | CHARACTER_VARYING(50)          | Staff member's email address (up to 50 characters)     |
|  | store_id    | SMALLINT                       | Store Key unique ID                                    |
|   | active      | BOOLEAN                        | Is staff member active? True/False                     |
|   | user_name   | CHARACTER VARYING(16)          | Staff member's internal username (up to 16 characters) |
|   | password    | CHARACTER VARYING(40)          | Staff member's internal password (up to 40 characters) |
|   | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated                        |
|   | picture     | BYTEA                          | Staff Member photo                                     |

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

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



## 9. TABLE: ACTOR

---

| Columns   |             |                                |  |
|---|-------------|--------------------------------|--|
|   | Name        | Data Type                      | Description                              |
|  | actor_id    | SERIAL                         | System assigned numeric ID for actor     |
|   | first_name  | CHARACTER_VARYING(45)          | Actor's first name (up to 45 characters) |
|   | last_name   | CHARACTER_VARYING(45)          | Actor's last name (up to 45 characters)  |
|   | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated          |

| Links from |                                      |
|------------|--------------------------------------|
| Table      | Join                                 |
| film_actor | film_actor.actor_id = actor.actor_id |


## 10. TABLE: FILM

| Columns   |                  |                                |   |
|---|------------------|--------------------------------|---|
|   | Name             | Data Type                      | Description   |
|  | film_id          | SERIAL                         | System assigned numeric ID for film                       |
|   | title            | CHARACTER_VARYING(255)         | Title of the film (up to 255 characters)                  |
|   | description      | TEXT                           | Description of the film                                   |
|   | release_year     | year                           | Year the film was released                                |
|  | language_id      | SMALLINT                       | Language Key unique ID                                    |
|   | rental_duration  | SMALLINT                       | Rental period (in days)                                   |
|   | rental_rate      | NUMERIC(4,2)                   | US dollar cost of the rental per period (rental_duration) |
|   | length           | SMALLINT                       | Run time of the film (in minutes)                         |
|   | replacement_cost | NUMERIC(5,2)                   | Cost to replace film                                      |
|   | rating           | mpaa_rating                    | MPAA viewer discretion rating                             |
|   | last_update      | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated                           |
|   | special_features | TEXT[]                         | Special features that are part of the film rental         |
|   | fulltext         | TSVECTOR                       | Full text search type                                     |

| 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 |


## 11. TABLE: CATEGORY

| Columns   |             |                                |  |
|---|-------------|--------------------------------|--|
|   | Name        | Data Type                      | Description                                |
|  | category_id | SERIAL                         | System assigned numeric ID for category    |
|   | name        | CHARACTER_VARYING(25)          | Name of the category (up to 25 characters) |
|   | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated            |

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





## 12. TABLE: LANGUAGE

| Columns   |             |                                |  |
|---|-------------|--------------------------------|--|
|   | Name        | Data Type                      | Description                                |
|  | language_id | SERIAL                         | System assigned numeric ID for language    |
|   | name        | CHARACTER_VARYING(20)          | Name of the language (up to 20 characters) |
|   | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated            |

| Links from |  |
|------------|--|
| Table      | Join                                       |
| Film       | language. language _id = film.language _id |



## 13. TABLE: ADDRESS

| Columns   |             |                                |   |
|---|-------------|--------------------------------|---|
|   | Name        | Data Type                      | Description                                   |
|  | address_id  | SERIAL                         | System assigned numeric ID for address        |
|   | address     | CHARACTER_VARYING(50)          | Street number and name (up to 50 characters)  |
|   | address2    | CHARACTER_VARYING(50)          | Additional address info (up to 50 characters) |
|   | district    | CHARACTER_VARYING(20)          | District name (up to 20 characters)           |
|  | city_id     | SMALLINT                       | City Key unique ID                            |
|   | postal_code | CHARACTER_VARYING(10)          | Postal code of address (up to 10 characters)  |
|   | phone       | CHARACTER_VARYING(20)          | Phone number (up to 20 characters)            |
|   | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated               |

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

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


## 14. TABLE: CITY

| Columns   |             |                                |                                    |
|---|-------------|--------------------------------|------------------------------------|
|   | Name        | Data Type                      | Description                        |
|  | city_id     | SERIAL                         | System assigned unique ID for city |
|   | city        | CHARACTER_VARYING(50)          | City name (up to 50 characters)    |
|  | country_id  | SMALLINT                       | Country Key unique ID              |
|   | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated    |

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

| Links from |                                |
|------------|--------------------------------|
| Table      | Join                           |
| address    | city.city_id = address.city_id |

## 15. TABLE: COUNTRY

| Columns   |             |                                |                                       |
|---|-------------|--------------------------------|---------------------------------------|
|   | Name        | Data Type                      | Description                           |
|  | country_id  | SERIAL                         | System assigned unique ID for country |
|   | country     | CHARACTER_VARYING(50)          | Country name (up to 50 characters)    |
|   | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date the entry was last updated       |

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

