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# DATA DICTIONARY - ROCKBUSTER STEALTH DATA ANALYSIS PROJECT

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## Legend



Primary Key

## Rockbuster Database

### Table Hierarchy

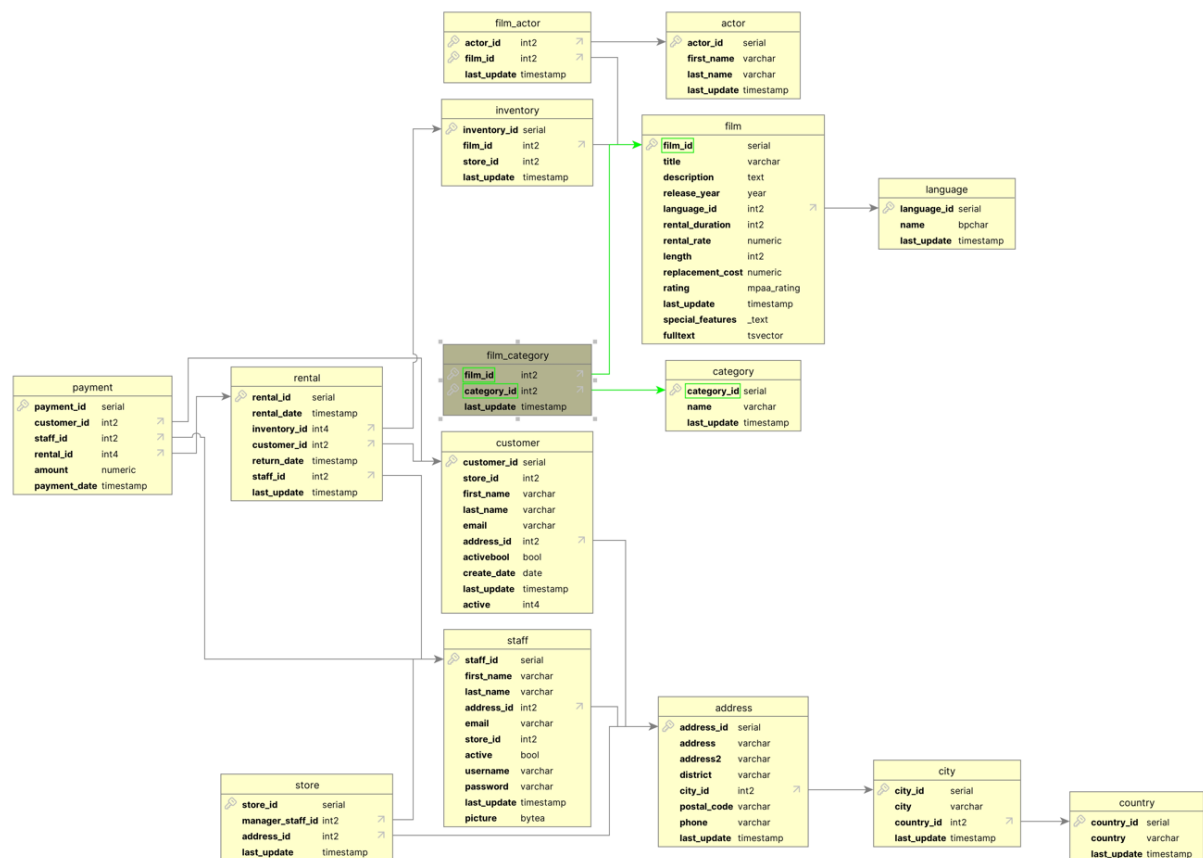


Diagram depicting the Rockbuster Database. Keys depicted Primary Keys linking the separate tables together.

### Table Description – RE: FACT, DIMENSION, SUB-DIMENSION

#### FACT Tables

- Payment
- Rental


#### - DIMENSION Tables

- Staff
- Customer
- Inventory
- Film actor


- Film category
- Store
- SUB-DIMENSION Tables
  - Actor
  - Film
  - Language
  - Category
  - Address
  - City
  - Country

## Database Table Descriptions


### Actor

| <u>Actor</u>   |                             |                             |          |            |
|--|-----------------------------|-----------------------------|----------|------------|
| Columns  | Data Type                   | Description                 | Links to | Links From |
| actor_id  | integer                     | numerical actor ID          |          | Film_actor |
| first_name   | character varying           | Actor First name            |          |            |
| last_name  | character varying           | Actor Second Name           |          |            |
| last_update  | timestamp without time zone | timestamp without time zone |          |            |

### Address


| <u>Address</u>   |                             |   |               |                        |
|--|-----------------------------|---|---------------|------------------------|
| Columns  | Data Type                   | Description                                 | Links to      | Links From             |
| address_id  | integer                     | numerical address ID                        |               | Store, Staff, Customer |
| address  | character varying           | Address                                     |               |                        |
| address2   | character varying           | Address additional if required, mostly null |               |                        |
| district   | character varying           | District or State                           |               |                        |
| city_id  | smallint                    | City ID numerical                           | City, city_id |                        |
| postal_code  | character varying           | Postal Code                                 |               |                        |
| phone  | character varying           | Phone number                                |               |                        |
| last_update  | timestamp without time zone | last updated timestamp without time zone    |               |                        |

### Category


| <u>Category</u>   |                             |                             |          |               |
|---|-----------------------------|-----------------------------|----------|---------------|
| Columns   | Data Type                   | Description                 | Links to | Links From    |
| category_id  | integer                     | Numerical ID                |          | Film_category |
| name  | character varying           | Genre of film               |          |               |
| last_update   | timestamp without time zone | timestamp without time zone |          |               |

### City


| <u>City</u> |  |  |  |  |
|-------------|--|--|--|--|
|-------------|--|--|--|--|

| Columns   | Data Type                   | Description                              | Links to | Links From |
|---|-----------------------------|--|----------|------------|
| city_id  | integer                     | Numerical City ID                        |          | address    |
| city  | character varying           | City Name                                |          |            |
| country_id  | smallint                    | Numerical Country ID                     | country  |            |
| last_update   | timestamp without time zone | last updated timestamp without time zone |          |            |


## Country

| <u>Country</u>   |                             |  |          |            |
|--|-----------------------------|--|----------|------------|
| Columns  | Data Type                   | Description                              | Links to | Links From |
| country_id  | integer                     | Numerical Country ID                     |          | city       |
| country  | character varying           | Country Name                             |          |            |
| last_update  | timestamp without time zone | Last updated timestamp without time zone |          |            |



## Customer

| <u>Customer</u>   |                             |  |          |                  |
|---|-----------------------------|--|----------|------------------|
| Columns   | Data Type                   | Description                              | Links to | Links From       |
| customer_id  | integer                     | Numerical Customer ID                    |          | Payment, rental, |
| store_id  | smallint                    | Numerical Store ID                       |          |                  |
| first_name  | character varying           | Customer First Name                      |          |                  |
| last_name   | character varying           | Customer Last Name                       |          |                  |
| email   | character varying           | Customer email address                   |          |                  |
| address_id  | smallint                    | Customer Numerical email address ID      | address  |                  |
| activebool  | boolean                     | TRUE/FALSE email present?                |          |                  |
| create_date   | date                        | Date created                             |          |                  |
| last_update   | timestamp without time zone | Last updated timestamp without time zone |          |                  |
| active  | integer                     | 0 or 1 for active email address?         |          |                  |



## Film

| <u>Film</u>   |                             |  |          |                                      |
|---|-----------------------------|--|----------|--------------------------------------|
| Columns   | Data Type                   | Description                                | Links to | Links From                           |
| film_id  | integer                     | Numerical Film ID                          |          | Film_category, inventory, film_actor |
| title   | character varying           | Film Title                                 |          |                                      |
| description   | text                        | Short film description                     |          |                                      |
| release_year  | integer                     | Year Film released                         |          |                                      |
| language_id   | smallint                    | Numerical Language ID – see language table | language |                                      |
| rental_duration   | smallint                    | Duration of rental allowance in days       |          |                                      |
| rental_rate   | numeric                     | Cost of rental                             |          |                                      |
| length  | smallint                    | Length of film in minutes                  |          |                                      |
| replacement_cost  | numeric                     | Replacement cost of film                   |          |                                      |
| rating  | USER-DEFINED                | Parental guidance rating                   |          |                                      |
| last_update   | timestamp without time zone | Last updated timestamp without time zone   |          |                                      |
| special_features  | ARRAY                       | Extras on rental (deleted scened etc.)     |          |                                      |
| fulltext  | tsvector                    | Keywords of film contents                  |          |                                      |


## Film\_actor

| <u>Film_actor</u> |   |                             |  |                     |
|-------------------|---|-----------------------------|--|---------------------|
| Columns           |   | Data Type                   | Description                              | Links to Links From |
| actor_id          |  | smallint                    | Numerical Actor ID - description needed  | actor               |
| film_id           |  | smallint                    | Numerical Film ID                        | film                |
| last_update       |   | timestamp without time zone | Last updated timestamp without time zone |                     |


## Film\_category

| <u>Film_category</u> |   |                             |  |                     |
|----------------------|---|-----------------------------|--|---------------------|
| Columns              |   | Data Type                   | Description                              | Links to Links From |
| film_id              |  | smallint                    | Numerical Film ID                        | film                |
| category_id          |  | smallint                    | Numerical Category/Genre ID              | category            |
| last_update          |   | timestamp without time zone | Last updated timestamp without time zone |                     |


## Inventory

| <u>Inventory</u> |   |                             |  |                     |
|------------------|---|-----------------------------|--|---------------------|
| Columns          |   | Data Type                   | Description                              | Links to Links From |
| inventory_id     |  | integer                     | Numerical Inventory ID                   | rental              |
| film_id          |   | smallint                    | Numerical Film ID                        | film                |
| store_id         |   | smallint                    | Numerical Store ID                       |                     |
| last_update      |   | timestamp without time zone | Last updated timestamp without time zone |                     |


## Language

| <u>Language</u> |   |                             |  |                     |
|-----------------|---|-----------------------------|--|---------------------|
| Columns         |   | Data Type                   | Description                              | Links to Links From |
| language_id     |  | integer                     | Numerical Language ID                    | film                |
| name            |   | character                   | Language                                 |                     |
| last_update     |   | timestamp without time zone | Last updated timestamp without time zone |                     |

## Payment


| <u>Payment</u> |   |                             |                       |                     |
|----------------|---|-----------------------------|-----------------------|---------------------|
| Columns        |   | Data Type                   | Description           | Links to Links From |
| payment_id     |  | integer                     | Numerical Payment ID  |                     |
| customer_id    |   | smallint                    | Numerical Customer ID | customer            |
| staff_id       |   | smallint                    | Numerical Staff ID    | staff               |
| rental_id      |   | integer                     | Numerical Rental ID   | rental              |
| amount         |   | numeric                     | Amount paid in \$     |                     |
| payment_date   |   | timestamp without time zone | Payment date and time |                     |

## Rental


| <u>Rental</u> |   |           |                     |                     |
|---------------|---|-----------|---------------------|---------------------|
| Columns       |   | Data Type | Description         | Links to Links From |
| rental_id     |  | integer   | Numerical Rental ID | payment             |

|              |                             |  |           |  |
|--------------|-----------------------------|--|-----------|--|
| rental_date  | timestamp without time zone | Date Rental started                      |           |  |
| inventory_id | integer                     | Numerical Inventory ID                   | inventory |  |
| customer_id  | smallint                    | Numerical Customer ID                    | customer  |  |
| return_date  | timestamp without time zone | Date Rental returned                     |           |  |
| staff_id     | smallint                    | Numerical Staff ID                       | staff     |  |
| last_update  | timestamp without time zone | Last updated timestamp without time zone |           |  |

## Staff

| <u>Staff</u>   |                             |  |          |                        |
|--|-----------------------------|--|----------|------------------------|
| Columns  | Data Type                   | Description                              | Links to | Links From             |
| staff_id  | integer                     | Numerical Staff ID                       |          | Store, payment, rental |
| first_name   | character varying           | Staff First Name                         |          |                        |
| last_name  | character varying           | Staff Last Name                          |          |                        |
| address_id   | smallint                    | Numerical Store Address ID               | address  |                        |
| email  | character varying           | Staff email address                      |          |                        |
| store_id   | smallint                    | Numerical Store ID                       |          |                        |
| active   | boolean                     | Staff Active TRUE/FALSE                  |          |                        |
| username   | character varying           | Staff Username                           |          |                        |
| password   | character varying           | Staff password                           |          |                        |
| last_update  | timestamp without time zone | Last updated timestamp without time zone |          |                        |
| picture  | bytea                       | Staff picture in binary data or null     |          |                        |

## Store

| <u>Store</u>   |                             |  |          |            |
|--|-----------------------------|--|----------|------------|
| Columns  | Data Type                   | Description                              | Links to | Links From |
| store_id  | integer                     | Numerical Store ID                       |          |            |
| manager_staff_id   | smallint                    | Numerical Manager Staff ID               | staff    |            |
| address_id   | smallint                    | Numerical Store address ID               | address  |            |
| last_update  | timestamp without time zone | Last updated timestamp without time zone |          |            |