



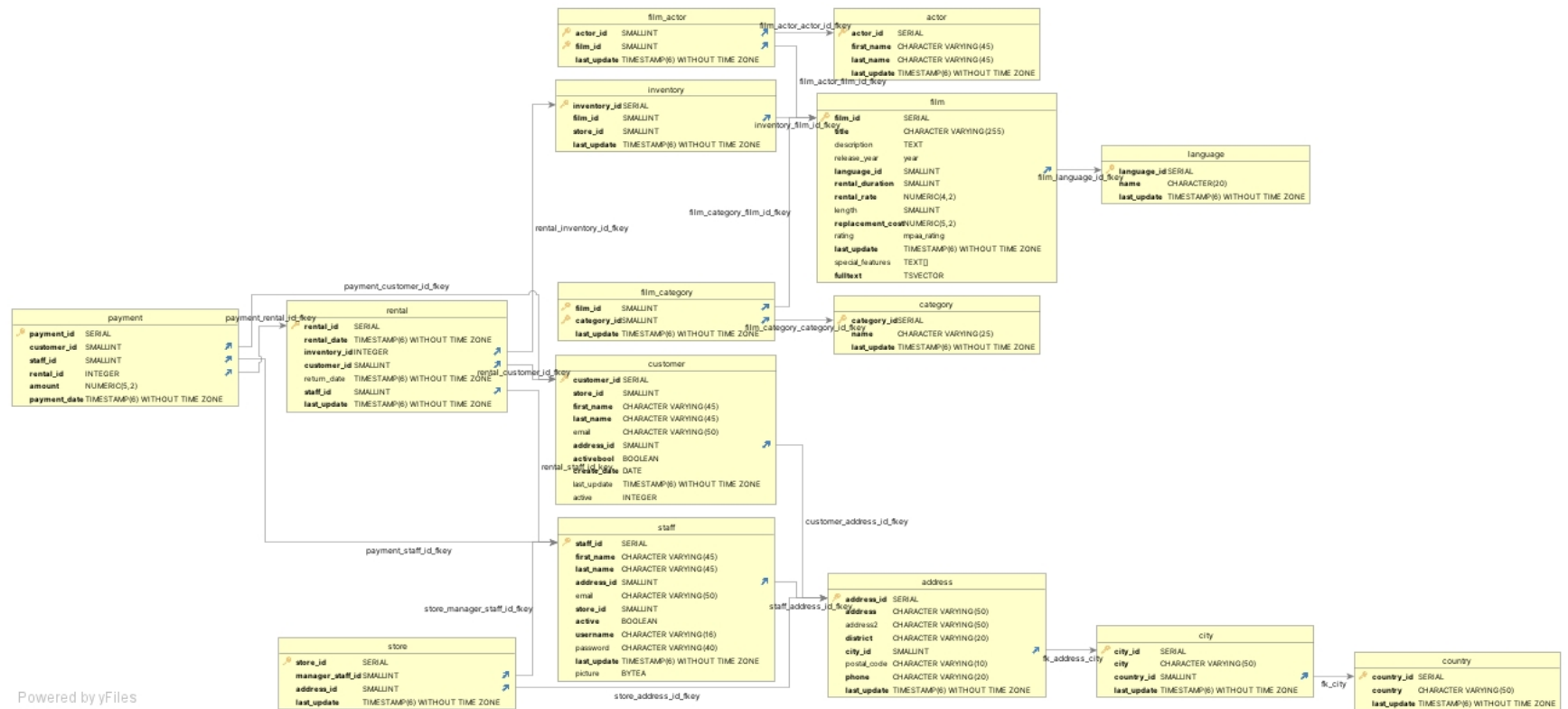
# ROCKBUSTER STEALTH

DATA DICTIONARY

Nathan Evans  
[nathanevans87@gmail.com](mailto:nathanevans87@gmail.com)

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# 1: Rockbuster Stealth ERD (Entity Relationship Diagram)



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## Legend



**Primary Key**







**Foreign Key**

## 2: Fact Tables


### 2.1 Table: Payment




*This table stores information about payments made by Rockbuster customers.*

| Payment   |                             |  |
|---|-----------------------------|--|
| Name  | Data Type                   | Description  |
| payment_id   | serial                      | primary key, unique identifier for payment records |
| customer_id  | smallint                    | foreign key, links to customer table primary key   |
| staff_id     | smallint                    | foreign key, links to staff table primary key      |
| rental_id    | integer                     | foreign key, links to rental table primary key     |
| amount  | numeric                     | amount paid  |
| payment_date  | timestamp without time zone | date/time of payment                               |

### 2.2 Table: Rental

*This table stores transactional information about rentals made by Rockbuster customers.*



| Rental  |                             |   |
|---|-----------------------------|---|
| Name  | Data Type                   | Description                                       |
| rental_id  | serial                      | primary key, unique identifier for rental records |
| rental_date   | timestamp without time zone | date when rental made                             |

|  |                             |  |
|--|-----------------------------|--|
| inventory_id  | integer                     | foreign key, <i>links to inventory table primary key</i> |
| customer_id   | smallint                    | foreign key, <i>links to customer table primary key</i>  |
| return_date  | timestamp without time zone | date when rental was returned                            |
| staff_id      | smallint                    | foreign key, <i>links to staff table primary key</i>     |
| last_update  | timestamp without time zone | date/time records last updated                           |

### 3: Dimension Tables



#### 3.1: Customer Table

*This table stores names and contact details for Rockbuster customers.*

| Customer   |                             |   |
|--|-----------------------------|---|
| Name   | Data Type                   | Description   |
| customer_id   | serial                      | primary key, unique identifier for customer records                   |
| store_id   | smallint                    | unique identifier of store  |
| first_name   | character varying(45)       | customer first name   |
| last_name  | character varying(45)       | customer last name  |
| email  | character varying(50)       | customer email  |
| address_id  | smallint                    | foreign key, <i>links to address table primary key</i>                |
| activebool   | boolean                     | categorize customers as “active” [true] or “not active” [false]       |
| create_date  | date                        | record of date when customer subscribed                               |
| last_update  | timestamp without time zone | date/time records last updated  |
| active   | integer                     | code of customer active use (1) for “active” and (0) for “not active” |



#### 3.2: Address Table

*This table stores detailed address and phone number information for Rockbuster customers.*

| Address  |                             |  |
|--|-----------------------------|--|
| Name   | Data Type                   | Description  |
| address_id  | serial                      | primary key, unique identifier for address records |
| address  | character varying(50)       | primary address                                    |
| address2   | character varying(50)       | optional secondary address                         |
| district   | character varying(50)       | district name                                      |
| city_id     | smallint                    | foreign key, <i>links to city primary table</i>    |
| postal_code  | character varying(10)       | postal code  |
| phone  | character varying(20)       | phone number                                       |
| last_update  | timestamp without time zone | date/time records last updated                     |


### 3.3: City Table

*This table stores names of cities for Rockbuster customers.*

| City   |                             |  |
|--|-----------------------------|--|
| Name   | Data Type                   | Description  |
| city_id     | serial                      | primary key, unique identifier for city records        |
| city   | character varying(50)       | name of city   |
| country_id  | smallint                    | foreign key, <i>links to country table primary key</i> |
| last_update  | timestamp without time zone | date/time records last updated                         |

### 3.4: Country Table




*This table stores names of countries for Rockbuster customers.*

| Country  |                       |  |
|--|-----------------------|--|
| Name   | Data Type             | Description  |
| country_id  | serial                | primary key, unique identifier for country records |
| country  | character varying(50) | name of country                                    |

|             |                             |                                |
|-------------|-----------------------------|--------------------------------|
| last_update | timestamp without time zone | date/time records last updated |
|-------------|-----------------------------|--------------------------------|



### 3.5: Store Table

*This table stores address of stores and manager reference for Rockbuster.*

| Store  |                             |  |
|--|-----------------------------|--|
| Name   | Data Type                   | Description                                      |
| store_id          | serial                      | primary key, unique identifier for store records |
| manager_staff_id  | smallint                    | foreign key, links to staff table primary key    |
| address_id        | smallint                    | foreign key, links to address table primary key  |
| last_update  | timestamp without time zone | date/time records last updated                   |

### 3.6: Inventory Table



*This table stores film inventory records for Rockbuster stores.*

| Inventory  |                             |  |
|--|-----------------------------|--|
| Name   | Data Type                   | Description  |
| inventory_id  | serial                      | primary key, unique identifier for inventory records |
| film_id     | smallint                    | foreign key, links to film table primary key         |
| store_id   | smallint                    | unique identifier of store                           |
| last_update  | timestamp without time zone | date/time records last updated                       |

### 3.7: Staff Table



*This table stores names and contact information for Rockbuster staff.*

| Staff |           |             |
|-------|-----------|-------------|
| Name  | Data Type | Description |

|  |                             |   |
|--|-----------------------------|---|
| staff_id    | serial                      | primary key, unique identifier for staff records        |
| first_name   | character varying(45)       | staff first name  |
| last_name  | character varying(45)       | staff last name   |
| address_id  | smallint                    | foreign key, <i>links to address table primary key</i>  |
| email  | character varying(50)       | staff email address                                     |
| store_id   | smallint                    | unique identifier of store                              |
| active   | boolean                     | categorize staff as true “active” or false “not active” |
| username   | character varying(16)       | username of staff account                               |
| password   | character varying(40)       | password of staff account                               |
| last_update  | timestamp without time zone | date/time records last updated                          |
| picture  | bytea                       | profile picture of staff account                        |

### 3.8: Film Table

*This table stores film details for Rockbuster.*


| Film  |                             |   |
|---|-----------------------------|---|
| Name  | Data Type                   | Description   |
| film_id        | serial                      | primary key, unique identifier for film records         |
| title   | character varying(255)      | film title  |
| description   | text                        | film description (text)                                 |
| release_year  | integer                     | year film was released                                  |
| language_id  | smallint                    | foreign key, <i>links to language table primary key</i> |
| rental_duration   | smallint                    | number of days film rented                              |
| rental_rate   | numeric                     | film rating (out of 5)                                  |
| length  | smallint                    | film length (in minutes)                                |
| replacement_cost  | numeric                     | cost of film replacement                                |
| rating  | user-defined                | age restrictions (R, PG-13...)                          |
| last_update   | timestamp without time zone | date/time records last updated                          |
| special_features  | array                       | videos related to film (trailers...)                    |



|          |          |                                     |
|----------|----------|-------------------------------------|
| fulltext | tsvector | film description used for searching |
|----------|----------|-------------------------------------|



### 3.9: Actor Table

*This table stores first and last names of actors.*

| Actor  |                             |  |
|--|-----------------------------|--|
| Name   | Data Type                   | Description                                      |
| actor_id  | serial                      | primary key, unique identifier for actor records |
| first_name   | character varying(45)       | actor first name                                 |
| last_name  | character varying(45)       | actor last name                                  |
| last_update  | timestamp without time zone | date/time records last updated                   |


### 3.10: Film\_Actor Table

*This table stores actor and film id information.*

| Film_Actor   |                             |   |
|--|-----------------------------|---|
| Name   | Data Type                   | Description                                   |
| actor_id  | smallint                    | foreign key, links to actor table primary key |
| film_id   | smallint                    | foreign key, links to actor table primary key |
| last_update  | timestamp without time zone | date/time records last updated                |


### 3.11: Language Table

*This table stores identification of the film language.*

| Language  |                             |   |
|---|-----------------------------|---|
| Name  | Data Type                   | Description   |
| language_id  | serial                      | primary key, unique identifier for language records |
| name  | character(20)               | film's language name                                |
| last_update   | timestamp without time zone | date/time records last updated                      |



### 3.12: Category Table

*This table stores genres of the films.*

| Category  |                             |   |
|---|-----------------------------|---|
| Name  | Data Type                   | Description   |
| category_id  | serial                      | primary key, unique identifier for category records |
| name  | character varying(25)       | genre name of film                                  |
| last_update   | timestamp without time zone | date/time records last updated                      |

### 3.13: Film\_Category Table

*This table stores id of film and category.*

| Film_Category   |                             |  |
|---|-----------------------------|--|
| Name  | Data Type                   | Description                                  |
| film_id      | smallint                    | foreign key, links to film table primary key |
| category_id  | smallint                    | foreign key, links to category primary key   |
| last_update   | timestamp without time zone | date/time records last updated               |