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Rockbuster Stealth LLC Data Dictionary

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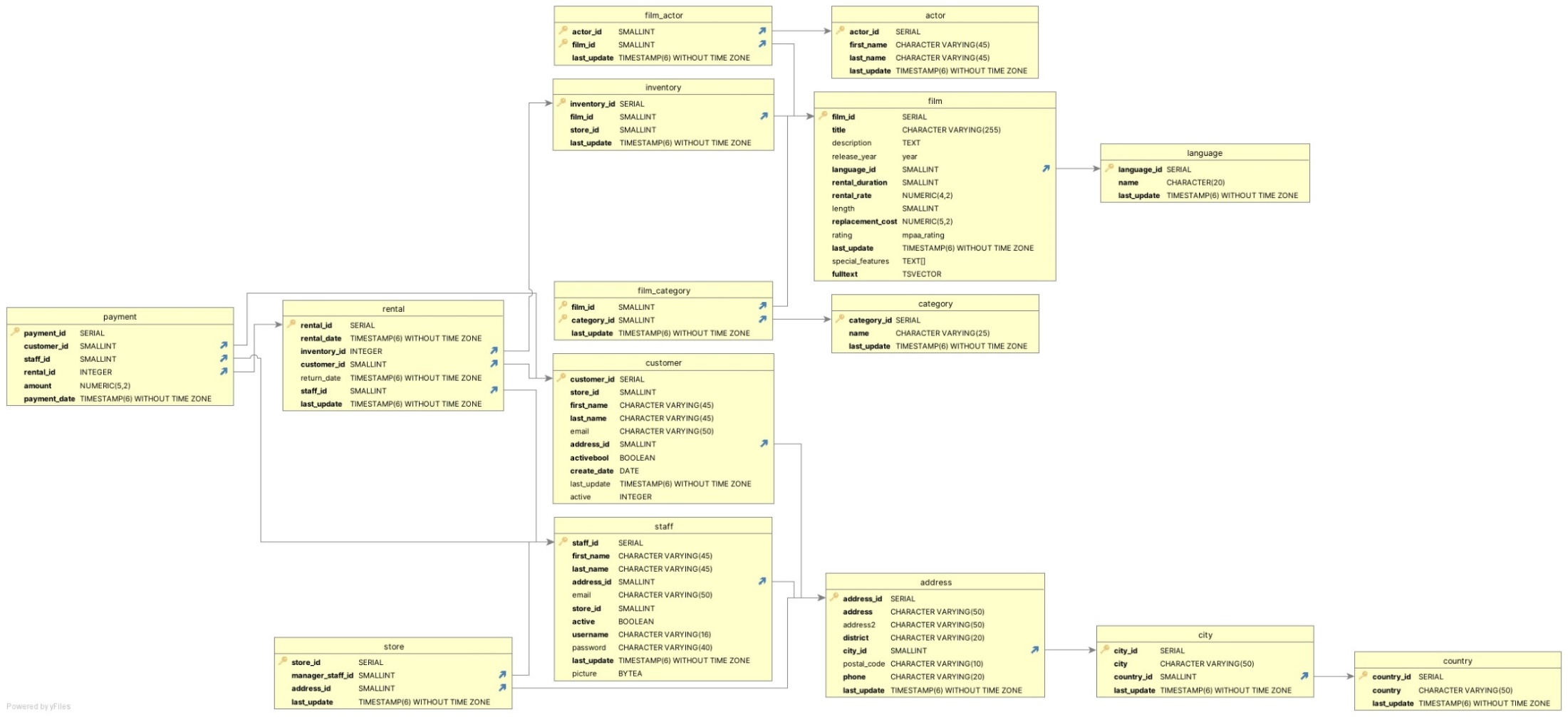
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# Entity Relationship Diagram



# Fact Tables

## Payment Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Columns | Data Type | Description |
| Primary | payment\_id | SERIAL | A unique id to identify the payment. |
| Foreign | customer\_id | SMALLINT | A unique id to identify the customer. |
| Foreign | staff\_id | SMALLINT | A unique id to identify the staff. |
| Foreign | rental\_id | INTEGER | A unique id to identify the rental. |
|  | amount | NUMERIC(5,2) | The total amount that the customer paid. |
|  | payment\_date | TIMESTAMP(6) WITHOUT TIME ZONE | The date that the payment was made. |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| customer | payment.customer\_id = customer.customer\_id |
| rental | payment.rental\_id = rental.rental\_id |
| staff | payment.staff\_id = staff.staff\_id |

## Rental Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Columns | Data Type | Description |
| Primary | rental\_id | SERIAL | A unique ID that identifies the rental. |
|  | rental\_date | TIMESTAMP(6) WITHOUT TIME ZONE | The date when the rental was purchased. |
| Foreign | inventory\_id | INTEGER | A unique ID that identifies the item in inventory. |
| Foreign | customer\_id | SMALLINT | A unique ID that identifies the customer. |
|  | return\_date | TIMESTAMP(6) WIHTOUT TIME ZONE | The date when the rental was returned. |
| Foreign | staff\_id | SMALLINT | A unique number that identifies the employee. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time when the row was last updated. |

## Links from

|  |  |
| --- | --- |
| Table | Join |
| payment | payment.rental\_id = rental.rental\_id |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| inventory | rental.inventory\_id = inventory.inventory\_id |
| customer | rental.customer\_id = customer.custoimer\_id |
| staff | rental.staff\_id = staff.staff\_id |

# Dimension Tables

## Store Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | store\_id | SERIAL | A unique ID that identifies the store. |
| Foreign | manager\_staff\_id | SMALLINT | A unique ID that identifies the manager. |
| Foreign | address\_id | SMALLINT | A unique ID that identifies the store address. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time when the row was last updated. |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| staff | store.staff\_id = staff.staff\_id |
| address | store.address\_id = address.address\_id |

## Film Actor Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Composite (Primary and Foreign) | actor\_id | SMALLINT | A unique ID that identifies the actor. |
| Composite (Primary and Foreign) | film\_id | SMALLINT | A unique ID that identifies the film. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time when a row was last updated. |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| actor | film\_actor.actor\_id = actor.actor\_id |
| film | film\_actor.film\_id = film.film\_id |

## Inventory Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | inventory\_id | SERIAL | A unique ID that identifies the item in inventory. |
| Foreign | film\_id | SMALLINT | A unique ID that identifies the film. |
|  | store\_id | SMALLINT | A unique ID that identifies the store. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time when the row was last updated. |

## Links from

|  |  |
| --- | --- |
| Table | Join |
| rental | rental.inventory\_id = inventory.inventory\_id |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| film | inventory.film\_id = film.film\_id |

## Film Category Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Composite Key (Primary and Foreign) | film\_id | SMALLINT | A unique ID that identifies the film. |
| Composite Key (Primary and Foreign) | category\_id | SMALLINT | A unique ID that identifies the category. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time when the row was last updated. |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| film | film\_category.film\_id = film.film\_id |
| category | film\_category.category\_id = category.category\_id |

## Customer Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | customer\_id | SERIAL | A unique ID that identifies the customer. |
|  | store\_id | SMALLINT | A unique ID that identifies the store |
|  | first\_name | CHARCTER VARYING(45) | The first name of the customer. |
|  | last\_name | CHARCTER VARYING(45) | The last name of the customer. |
|  | email | CHARCTER VARYING(45) | Email information of the customer. |
| Foreign | address\_id | SMALLINT | Address information of the customer. |
|  | activebool | BOOLEAN | Whether the customer is active or not. |
|  | create\_date | DATE | The date when the account was created. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time when the row was last updated. |
|  | active | INTEGER | Whether the customer is active or not. |

## Links from

|  |  |
| --- | --- |
| Table | Join |
| rental | rental.customer\_id = customer.customer\_id |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| address | customer.address\_id = address.address\_id |

## Staff Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | staff\_id | SERIAL | A unique ID of the employee. |
|  | first\_name | CHARCTER VARYING(45) | The first name of the employee. |
|  | last\_name | CHARCTER VARYING(45) | The last name of the employee. |
| Foreign | address\_id | SMALLINT | The address information of the employee. |
|  | email | CHARCTER VARYING(50) | The email information of the employee. |
|  | store\_id | SMALLINT | A unique ID of the store. |
|  | active | BOOLEAN | Whether the employee is active or not. |
|  | username | CHARCTER VARYING(16) | The username of the employee account. |
|  | password | CHARCTER VARYING(40) | The password of the employee account. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and name the row was last updated. |

## Links from

|  |  |
| --- | --- |
| Table | Join |
| payment | payment.staff\_id = staff.staff\_id |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| address | staff.address\_id = address.address\_id |

## Actor Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | actor\_id | SERIAL | A unique ID that identifies the actor. |
|  | first\_name | CHARCTER VARYING(45) | First name of the actor. |
|  | last\_name | CHARCTER VARYING(45) | Last name of the actor. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time the row was last updated. |

## Links from

|  |  |
| --- | --- |
| Table | Join |
| film\_actor | film\_actor.actor\_id = actor.actor\_id |

## Category Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | category\_id | SERIAL | A unique ID that identifies the category. |
|  | name | CHARCTER VARYING(25) | Name of the category. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time the row was last updated. |

## Links from

|  |  |
| --- | --- |
| Table | Join |
| film\_category | film\_category.category\_id = category.category\_id |

## Film Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
|  | film\_id | SERIAL | A unique ID that identifies the film. |
|  | title | CHARCTER VARYING(255) |  |
|  | description | TEXT | It describes the story of the film. |
|  | release\_year | year | The year the film released. |
|  | language\_id | SMALLINT | The language of the film. |
|  | rental\_duration | SMALLINT | How long the film was rented. |
|  | rental\_rate | NUMERIC(4,2) | The date the film was rented. |
|  | length | SMALLINT | The length of the film. |
|  | replacement\_cost | NUMERIC(5,2) | The cost to replace the film if it gets lost. |
|  | rating | mpaa\_rating | The rating of the film. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time the row was last updated. |
|  | special\_features | TEXT | The features that the film offers. |
|  | fulltext | TSVECTOR | Some keywords about the film. |

## Links from

|  |  |
| --- | --- |
| 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 |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| language | film.language\_id = language.language\_id |

## Address Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | address\_id | SERIAL | A unique ID that identifies the address of the customer. |
|  | address | CHARCTER VARYING(50) | The address of the customer. |
|  | address2 | CHARCTER VARYING(50) | Second address of the customer if it applies. |
|  | district | CHARCTER VARYING(20) | The district that the customer lives in. |
| Foreign | city\_id | SMALLINT | The city that the customer lives in. |
|  | postal\_code | CHARCTER VARYING(10) | The postal code of the customer’s address. |
|  | phone | CHARCTER VARYING(20) | The customer’s phone number. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time the row last updated. |

## Links from

|  |  |
| --- | --- |
| Table | Join |
| customer | customer.address\_id = address.address\_id |
| staff | staff.address\_id = address.address\_id |
| store | store.address\_id = address.address\_id |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| city | address.city\_id = city.city\_id |

## City Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | city\_id | SERIAL | A unique ID that identifies the city the customer lives in. |
|  | city | CHARCTER VARYING(50) | The city the customer lives in. |
| Foreign | country\_id | SMALLINT | A unique ID that identifies the country where the customer lives in. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time the row last updated. |

## Links to

|  |  |
| --- | --- |
| Table | Join |
| country | city.country\_id = country.country\_id |

## Country Table

|  |  |  |  |
| --- | --- | --- | --- |
| Key Type | Column | Data Type | Description |
| Primary | country\_id | SMALLINT | A unique ID that identifies the country where the customer lives in. |
|  | country | CHARCTER VARYING(50) | The country the customer lives in. |
|  | last\_update | TIMESTAMP(6) WITHOUT TIME ZONE | The date and time the row last updated. |

## Links from

|  |  |
| --- | --- |
| Table | Join |
| city | city.country\_id = country.country\_id |