A orange and black circular object

Description automatically generated

**Data Dictionary:**

Rockbusters Stealth LLC

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**1.Rockbusters Stealth**

Rockbuster Stealth LLC is a movie rental company that has stores around the world and is planning to launch an online video rental store.

The Rockbuster database has a Snowflake schema containing rental, payment, movies, stores and staff

**1.1 Entity Relationship Database**

A diagram of a computer

Description automatically generated with medium confidence

**2.Legend**

|  |  |
| --- | --- |
| Image | Reference |
| Old Key with solid fill | Primary Key |
| Old Key outline | Foreign Key |

**3.Facts Tables**

**3.1. Rental**

Rental information on films

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | rental\_id | SERIAL | **Primary Key**; # to signify instance of a customer renting movie/DVD |
|  | rental\_date | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when rental information was insertered/updated |
| Old Key outline | inventory\_id | INTEGER | Unique # to connect movie with store inventory is located at |
| Old Key outline | customer\_id | SMALLINT | Unique # to signify specific customer from *customer* Table |
|  | return\_date | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when rental was returned |
| Old Key outline | staff\_id | SMALLINT | Unique # to signify specific staff members(2 total) |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when rental information was insertered/updated |

**Links To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | Inventory | rental.inventory\_id= inventory.inventory\_id | FK\_inventory\_inventory\_id  Foreign Key constraint referencing rental.inventory\_id |
|  | Customer | rental.customer\_id =  customer.customer\_id | FK\_customer\_customer\_id  Foreign Key constraint referencing rental.customer\_id |
|  | Staff | rental.staff\_id =  staff.staff\_id | FK\_staff\_staff\_id  Foreign Key constraint referencing rental.staff\_id |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | Payment | rental.rental\_id =  payment.rental\_id | FK\_payment\_rental\_id  Foreign Key constraint referencing rental.rental\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Columns | Name/Decription |
| Old Key with solid fill | rental\_id | rental.rental\_id |
| Old Key outline | inventory\_id | rental.inventory\_id |
| Old Key outline | customer\_id | rental.customer\_id |
| Old Key outline | staff\_id | rental.staff\_id |

**3.2. Payment**

Payment information, including customer who paid, staff who took payment, the item rented, etc.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | payment\_id | SERIAL | Primary Key; # to signify and instance of payment |
| Old Key outline | customer\_id | SMALLINT | Unique # to signify specific customer from *customer* Table |
| Old Key outline | staff\_id | SMALLINT | Unique # to signify specific staff members(2 total) |
| Old Key outline | rental\_id | INTEGER | Unique # to signify instance of a customer renting movie/DVD |
|  | amount | NUMERIC(5,2) | Decimal representation of dollar amount customer paid |
|  | payment\_date | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when payment occurred |

**Links To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | Customer | payment.customer\_id =  customer.customer\_id | FK\_customer\_customer\_id  Foreign Key constraint referencing payment.customer\_id |
|  | Staff | payment.staff\_id =  staff.staff\_id | FK\_staff\_staff\_id  Foreign Key constraint referencing payment.staff\_id |
|  | Rental | payment.rental\_id =  rental.rental\_id | FK\_rental\_rental\_id  Foreign Key constraint referencing payment.rental\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Column | Name/Description |
| Old Key with solid fill | payment\_id | payment.payment\_id |
| Old Key outline | customer\_id | payment.customer\_id |
| Old Key outline | staff\_id | payment.staff\_id |
| Old Key outline | rental\_id | payment.rental\_id |

**4.Dimension Tables**

**4.1.Film**

A diagram of a computer

Description automatically generated with medium confidence

**4.1.1.film\_category**

Table consists of unique id number for specific films and categories that are connected to other tables.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | film\_id | SERIAL | Primary Key; Unique # to signify specific film from film Table |
| Old Key with solid fill | category\_id | SERIAL | Primary Key; Unique # to signify specific category film is in, from film Table |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when information in the table was updated |

**Links To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | film | rental.inventory\_id= inventory.inventory\_id | FK\_inventory\_inventory\_id  Foreign Key constraint referencing rental.inventory\_id |
|  | film\_actor | rental.customer\_id =  customer.customer\_id | FK\_customer\_customer\_id  Foreign Key constraint referencing rental.customer\_id |
|  | category | rental.staff\_id =  staff.staff\_id | FK\_staff\_staff\_id  Foreign Key constraint referencing rental.staff\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Columns | Name/Decription |
| Old Key with solid fill | film\_id | film\_category.film\_id |
| Old Key with solid fill | category\_id | film\_category.category\_id |

**4.1.2.film**

Full information on films within company, including title, description, language, release year etc.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | film\_id | SERIAL | Primary Key; # to signify specific movie/film |
|  | title | VARCHAR(255) | Title of movie/film |
|  | description | TEXT | Quick synopsis of each individual movie/film |
|  | release\_year | year | Year movie/film was released |
| Old Key outline | language\_id | SMALLINT | Unique # to signify specific language movie is in, from *language* Table |
|  | rental\_duration | SMALLINT | Number of days movie/film was rented |
|  | rental\_rate | NUMERIC(4,2) | Decimal representation of dollar amount movie costs to rent |
|  | length | SMALLINT | Length of movie/film |
|  | replacement\_cost | NUMERIC(5,2) | Decimal representation of dollar amount it costs to replace movie/film |
|  | rating | mpaa\_rating | MPAA rating of movie/film |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify information was updated |
|  | special\_features | TEXT[] | Details on special features included on the movie/film |
|  | fulltext | TSVECTOR | Full text synopsis of each individual movie |

**Links To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | language | film.language\_id= language.language\_id | FK\_language\_language\_id  Foreign Key constraint referencing film.language\_id |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | film\_actor | film.film\_id =  film\_actor.film\_id | FK\_film\_actor\_film\_id  Foreign Key constraint referencing film.film\_id |
|  | inventory | film.film\_id =  inventory.film\_id | FK\_inventory\_film\_id  Foreign Key constraint referencing film.film\_id |
|  | film\_category | film.film\_id =  film\_category.film\_id | FK\_film\_category\_film\_id  Foreign Key constraint referencing film.film\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Columns | Name/Decription |
| Old Key with solid fill | film\_id | film.film\_id |
| Old Key outline | language\_id | film.language\_id |

**4.1.3.category**

Table consists of unique id number that references the category/genre of movie.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | category\_id | SERIAL | Primary Key; # to signify category movie genres can be placed in |
|  | name | VARCHAR(25) | Category name of movie genres |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify information was updated |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | film\_category | category.category\_id= film\_category.category\_id | FK\_film\_category\_film\_id  Foreign Key constraint referencing category.category\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Columns | Name/Decription |
| Old Key with solid fill | category\_id | category.category\_id |

**4.1.4.language**

Table consists of languages movies are played in.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | language\_id | SERIAL | Primary Key; # to signify specific language movie is in |
|  | name | CHARACTER(20) | Name of language |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify information was updated |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | film | language.language\_id= film.language\_id | FK\_film\_language\_id  Foreign Key constraint referencing language.language\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Columns | Name/Decription |
| Old Key with solid fill | language\_id | language.language\_id |

**4.1.5.inventory**

Table consists of information on inventory stock, by unique film id and store id.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | inventory\_id | SERIAL | Primary Key; # to signify specific film and it’s location |
| Old Key outline | film\_id | SMALLINT | Unique # to signify specific film from *film* Table |
| Old Key outline | store\_id | SMALLINT | Unique # to signify specific store from *store* Table |
| Old Key outline | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when information was updated |

**Links** **To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | film | inventory.film\_id =  film.film\_id | FK\_film\_film\_id  Foreign Key constraint referencing inventory.film\_id |
|  | film\_actor | inventory.film\_id =  film\_actor.film\_id | FK\_film\_actor\_film\_id  Foreign Key constraint referencing inventory.film\_id |

**Linked** **From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | rental | inventory.inventory\_id =  rental.inventory\_id | FK\_rental\_inventory\_id  Foreign Key constraint referencing inventory.invetory\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Columns | Name/Decription |
| Old Key with solid fill | inventory\_id | inventory.inventory\_id |

**4.1.6.film\_actor**

Table consists of unique actor id’s, as well as film id’s, connecting both to film and film & actor tables.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | actor\_id | SMALLINT | Primary Key; # to signify specific actor’s information from *actor* Table |
| Old Key with solid fill | film\_id | SMALLINT | Primary Key; # to signify specific film’s information from *film* Table |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when information was updated |

**Links** **To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | actor | actor.actor\_id =  film\_actor.actor\_id | FK\_actor\_actor\_id  Foreign Key constraint referencing film\_actor.actor\_id |
|  | film | film.film\_id =  film\_actor.film\_id | FK\_film\_film\_id  Foreign Key constraint referencing film\_actor.film\_id |
|  | inventory | inventory.film\_id =  film\_actor.film\_id | FK\_inventory\_film\_id  Foreign Key constraint referencing film\_actor.film\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Columns | Name/Decription |
| Old Key with solid fill | actor\_id | film\_actor.actor\_id |
| Old Key with solid fill | film\_id | film\_actor.film\_id |

**4.1.7.actor**

Table consists of actor’s first and last names, alongside unique actor id.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | actor\_id | SERIAL | Primary Key; # to signify specific actor |
|  | first\_name | VARCHAR(45) | First name of actor |
|  | last\_name | VARCHAR(45) | Last name of actor |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify information was updated |

**Linked** **From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | film\_actor | film\_actor.actor\_id =  actor.actor\_id | FK\_film\_actor\_actor\_id  Foreign Key constraint referencing actor.actor\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Column | Name/Description |
| Old Key with solid fill | actor\_id | actor.actor\_id |

**4.2.Store**

A diagram of a server

Description automatically generated

**4.2.1.customer**

Table consists of customer information including first/last name, email, address etc.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | customer\_id | SERIAL | Primary Key; # to signify specific customer from *customer* Table |
| Old Key outline | store\_id | SMALLINT | Unique # to signify specific store, from *store* Table |
|  | first\_name | VARCHAR(45) | First name of customer |
|  | last\_name | VARCHAR(45) | Last name of customer |
|  | email | VARCHAR(50) | E-mail address of customer |
| Old Key outline | address\_id | SMALLINT | Unique # to signify specific address, from *address* Table |
|  | activebool | BOOLEAN | “True” or “False” |
|  | create\_date | DATE | Date customer information created |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when information |
|  | active | INTEGER | “1”=active account & “0”=not active account |

**Links** **To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | address | address.address\_id =  customer.address\_id | FK\_address\_address\_id  Foreign Key constraint referencing customer.address\_id |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | rental | rental.customer\_id =  customer.customer\_id | FK\_rental\_customer\_id  Foreign Key constraint referencing customer.customer\_id |
|  | payment | payment.customer\_id =  customer.customer\_id | FK\_payment\_customer\_id  Foreign Key constraint referencing customer.customer\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Column | Name/Description |
| Old Key with solid fill | customer\_id | customer.customer\_id |
| Old Key outline | store\_id | customer.store\_id |
| Old Key outline | address\_id | customer.address\_id |

**4.2.2.staff**

Table consists of information on staff members, including unique staff\_id, first/last name, email, store location (store\_id) and usernames/passwords.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | staff\_id | SERIAL | Primary Key; Unique # to signify specific staff members(2 total) |
|  | first\_name | VARCHAR(45) | First name of staff member |
|  | last\_name | VARCHAR(45) | Last name of staff member |
| Old Key outline | address\_id | SMALLINT | Unique # to signify specific address from *address* Table |
|  | email | VARCHAR(50) | E-mail of staff members |
| Old Key outline | store\_id | SMALLINT | Unique # to signify specific store from *store* Table |
|  | active | BOOLEAN | “True” or “False” (Is staff member actively working?) |
|  | username | VARCHAR(16) | Username of staff member(s) company log in |
|  | password | VARCHAR(40) | Password of staff member(s) company log in |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when information was updated |
|  | picture | BYTEA | Picture of staff member(s) |

**Links To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | address | address.address\_id =  staff.address\_id | FK\_address\_address\_id  Foreign Key constraint referencing staff.address\_id |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | Payment | payment.staff\_id =  staff.staff\_id | FK\_payment\_staff\_id  Foreign Key constraint referencing staff.staff\_id |
|  | rental | rental.staff\_id =  staff.staff\_id | FK\_rental\_staff\_id  Foreign Key constraint referencing staff.staff\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Column | Name/Description |
| Old Key with solid fill | staff\_id | staff.staff\_id |
| Old Key outline | address\_id | staff.address\_id |
| Old Key outline | store\_id | staff.store\_id |

**4.2.3.store**

Table consists of store information, including unique store\_id, manager, and address.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | store\_id | SERIAL | Primary Key; # to signify specific store |
|  | manager\_staff\_id | SMALLINT | # to signify specific manager in charge of staff member(s) |
| Old Key outline | address\_id | SMALLINT | Unique # to signify specific address from *address* Table |
|  | last\_update | TIMESTAMP(6) W/OUT TIMEZONE | Date/time stamp to signify when information was updated |

**Links To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | staff | staff.store\_id =  store.store\_id | FK\_staff\_store\_id  Foreign Key constraint referencing store.store\_id |
|  | address | address.address\_id =  store.address\_id | FK\_address\_address\_id  Foreign Key constraint referencing store.address\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Column | Name/Description |
| Old Key with solid fill | store\_id | store.store\_id |
| Old Key outline | address\_id | store.address\_id |

**4.3.Location**

A close-up of a yellow box

Description automatically generated

**4.3.1.address**

Table consists of information on addresses within the database for customers and stores.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | address\_id | SERIAL | Primary Key; # to signify specific address |
|  | address | VARCHAR(50) | Street address |
|  | address2 | VARCHAR(50) | Additional line for extended address |
|  | district | VARCHAR(20) | State and/or area of address |
| Old Key outline | city\_id | SMALLINT | Unique # to signify specific city from *city* Table |
|  | postal\_code | VARCHAR(10) | Numerical digits representing Area/Zip code |
|  | phone | VARCHAR(20) | Phone number |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when information was updated |

**Links To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | city | city.city\_id =  address.city\_id | FK\_city\_city\_id  Foreign Key constraint referencing address.city\_id |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | Customer | customer.address\_id =  address.address\_id | FK\_customer\_address\_id  Foreign Key constraint referencing address.address\_id |
|  | Staff | staff.address\_id =  address.address\_id | FK\_staff\_address\_id  Foreign Key constraint referencing address.address\_id |
|  | store | store.address\_id =  address.address\_id | FK\_store\_address\_id  Foreign Key constraint referencing address.address\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Column | Name/Description |
| Old Key with solid fill | address\_id | address.address\_id |
| Old Key outline | city\_id | address.city\_id |

**4.3.2.city**

Table consists of information of cities Rockbusters is located, including unique city\_id, city name and country\_id.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | city\_id | SERIAL | Primary Key; # to signify specific city |
|  | city | VARCHAR(50) | Name of city |
| Old Key outline | country\_id | SMALLNT | Unique # to signify a specific country |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when information was updated |

**Links To**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | country | country.city\_id =  city.city\_id | FK\_country\_city\_id  Foreign Key constraint referencing city.city\_id |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | address | address.city\_id =  city.city\_id | FK\_address\_city\_id  Foreign Key constraint referencing city.city\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Column | Name/Description |
| Old Key with solid fill | city\_id | city.city\_id |
| Old Key outline | country\_id | city.country\_id |

**4.3.3.country**

Table consists of information on countries Rockbusters is located in, including unique country\_id, and country name.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Data Type | Description |
| Old Key with solid fill | country\_id | SERIAL | Primary Key; # to signify specific country |
|  | country | VARCHAR(50) | Name of country |
|  | last\_update | TIMESTAMP(6) W/OUT TIME ZONE | Date/time stamp to signify when information was updated |

**Linked From**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Table | Joins | Title/Name/Description |
|  | city | city.city\_id =  country.city\_id | FK\_city\_city\_id  Foreign Key constraint referencing country.city\_id |

**Unique Keys**

|  |  |  |
| --- | --- | --- |
|  | Column | Name/Description |
| Old Key with solid fill | country\_id | country.country\_id |