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Rockbuster Stealth data dictionary

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ROCKBUSTER STEALTH LCC

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Entity Relationship Diagram



Tables

Fact Tables

These tables usually contain transactional records and are the central table in a star schema. In the context of a video rental store, which this schema appears to represent, the fact tables could be:

rental

- **rental_id** (SERIAL): A **unique identifier** for each rental transaction.
- **rental_date** (TIMESTAMP WITHOUT TIME ZONE): The date and time when the rental was made.
- **inventory_id** (INTEGER): Links to the inventory table to show which item was rented.
- **customer_id** (SMALLINT): The ID of the customer who made the rental.
- **return_date** (TIMESTAMP WITHOUT TIME ZONE): The date and time when the item was returned.
- **staff_id** (SMALLINT): The ID of the staff member who processed the rental.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: inventory/customer/staff

Links from: payment

payment

- **payment_id** (SERIAL): A **unique identifier** for each payment.
- **customer_id** (SMALLINT): The ID of the customer who made the payment.
- **staff_id** (SMALLINT): The ID of the staff member who processed the payment.
- **rental_id** (INTEGER): Links to the rental table to show which rental the payment is for.
- **amount** (NUMERIC(5,2)): The amount of the payment.
- **payment_date** (TIMESTAMP WITHOUT TIME ZONE): The date and time the payment was made.

Links to: rental/customer/staff

Links from: none

Dimension Tables

These tables contain the descriptive attributes of the objects in the fact tables and are used to filter and aggregate data.

inventory

- **inventory_id** (SERIAL): A **unique identifier** for each inventory item.
- **film_id** (SMALLINT): Links to the film table to identify the movie.
- **store_id** (SMALLINT): The ID of the store where the inventory item is located.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: film

Links from: rental

film

- **film_id** (SERIAL): A **unique identifier** for each film.
- **title** (CHARACTER VARYING(255)): The title of the film.
- **description** (TEXT): A description of the film.
- **release_year** (YEAR): The year the film was released.
- **language_id** (SMALLINT): The ID for the language of the film.
- **rental_duration** (SMALLINT): The number of days the film is rented for.
- **rental_rate** (NUMERIC(4,2)): The cost to rent the film.
- **length** (SMALLINT): The running time of the film.
- **replacement_cost** (NUMERIC(5,2)): The cost to replace the film.
- **rating** (MPAA RATING): The rating of the film.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.
- **special_features** (TEXT): Any special features the film may have.
- **fulltext** (TSVECTOR): A full-text search vector.

Links to: language_id

Links from: film_actor/film_category

actor

- **actor_id** (SERIAL): A **unique identifier** for each actor.
- **first_name** (CHARACTER VARYING(45)): The first name of the actor.
- **last_name** (CHARACTER VARYING(45)): The last name of the actor.

- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: none

Links from: film_actor

film_actor

- **actor_id** (SMALLINT): Links to the actor table. Acts **as unique identifier in conjunction with film_id**.
- **film_id** (SMALLINT): Links to the film table. Acts **as unique identifier in conjunction with actor_id**.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: actor/film

Links from: none

film_category

- **film_id** (SMALLINT): Links to the film table to identify the movie. Acts **as unique identifier in conjunction with category_id**.
- **category_id** (SMALLINT): Links to the category table to identify the genre of the movie. Acts **as unique identifier in conjunction with film_id**.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: category/film

Links from: none

category

- **category_id** (SERIAL): A **unique identifier** for each movie genre category.
- **name** (CHARACTER VARYING(25)): The name of the category.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: none

Links from: film_category

language

- **language_id** (SERIAL): **A unique identifier** for each language.
- **name** (CHARACTER(20)): The name of the language.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: none

Links from: film

store

- **store_id** (SERIAL): **A unique identifier** for each store.
- **manager_staff_id** (SMALLINT): The ID of the manager of the store.
- **address_id** (SMALLINT): Links to the address table to identify the location of the store.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: staff/address

Links from: none

staff

- **staff_id** (SERIAL): **A unique identifier** for each staff member.
- **first_name** (CHARACTER VARYING(45)): The first name of the staff member.
- **last_name** (CHARACTER VARYING(45)): The last name of the staff member.
- **address_id** (SMALLINT): Links to the address table to identify the staff member's address.
- **email** (CHARACTER VARYING(50)): The email address of the staff member.
- **store_id** (SMALLINT): The ID of the store where the staff member works.
- **active** (BOOLEAN): Whether the staff member is currently active.
- **username** (CHARACTER VARYING(16)): The username for the staff member.
- **password** (CHARACTER VARYING(40)): The password for the staff member.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

- **picture** (BYTEA): Binary data for the staff member's picture.

Links to: address

Links from: payment/store/rental

customer

- **customer_id** (SERIAL): A **unique identifier** for each customer.
- **store_id** (SMALLINT): A unique identifier for the store where the customer is active
- **first_name** (CHARACTER VARYING(45)): The first name of the customer.
- **last_name** (CHARACTER VARYING(45)): The last name of the customer
- **email** (CHARACTER VARYING(50)): The email address of the customer.
- **address_id** (SMALLINT): Links to the address table to identify the customer's address.
- **activebool** (BOOLEAN): A Boolean saying whether the customer is currently active.
- **create_date** (DATE): The date where the customer info was first entered in the database.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.
- **active** (INTEGER): An integer (0 or 1) that says whether the customer is currently active.

Links to: address

Links from: payment/rental

address

- **address_id** (SERIAL): A **unique identifier** for each address.
- **address** (CHARACTER VARYING(50)): The street address.
- **address2** (CHARACTER VARYING(50)): Additional address detail
- **district** (CHARACTER VARYING(20)): The district or area of the address.
- **city_id** (SMALLINT): Links to the city table.
- **postal_code** (CHARACTER VARYING(10)): The postal or ZIP code for the address.
- **phone** (CHARACTER VARYING(20)): The telephone number associated with the address.

- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: city

Links from: store/staff/customer

city

- **city_id** (SERIAL): A **unique identifier** for each city.
- **city** (CHARACTER VARYING(50)): The name of the city.
- **country_id** (SMALLINT): Links to the country table to identify the country of the city.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: country

Links from: address

country

- **country_id** (SERIAL): A **unique identifier** for each country.
- **country** (CHARACTER VARYING(50)): The name of the country.
- **last_update** (TIMESTAMP WITHOUT TIME ZONE): The last time this record was updated.

Links to: none

Links from: city