

Rockbuster Stealth LLC

Data Dictionary

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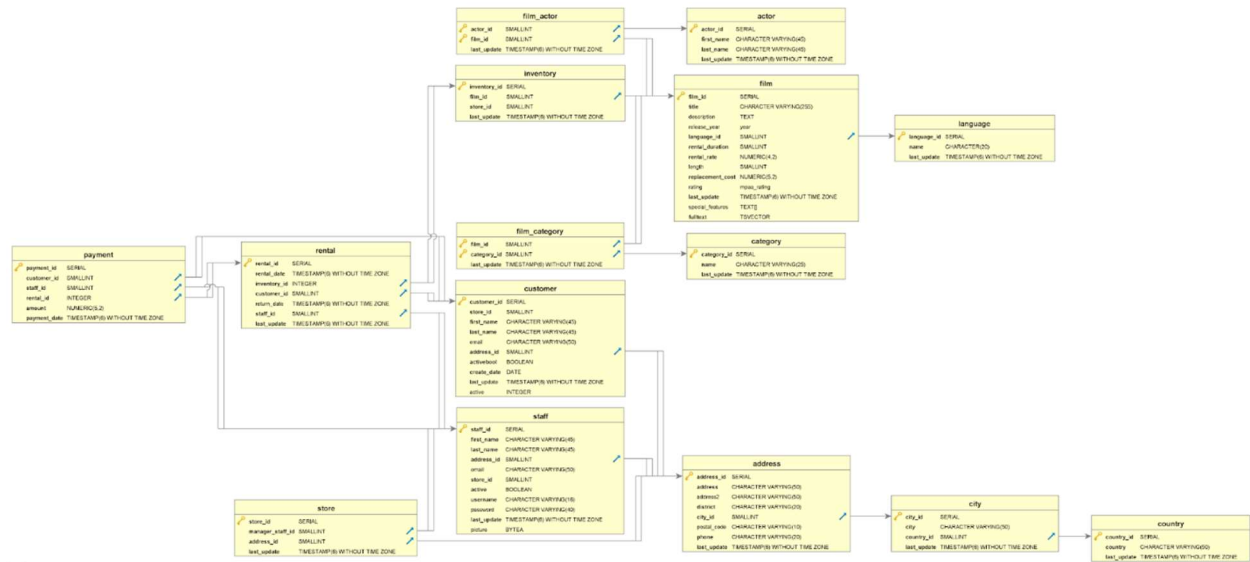
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Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. Facing stiff competition from streaming services such as Netflix and Amazon Prime, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service in order to stay competitive.

Rockbuster Entity Relationship Diagram



Fact Tables

Payment

| Payment | | |
|----------------|--------------------------------|---|
| <u>Columns</u> | <u>Data Type</u> | <u>Description</u> |
| Payment_id | Serial | Identification number for each payment |
| Customer_id | Smallint | Unique identifier for each customer |
| Staff_id | Smallint | Unique identifier for each staff member |
| Rental_id | Integer | Unique identifier for each rental |
| Amount | Numeric(5,2) | Amount of each payment |
| Payment_date | Timestamp(6) without time zone | Date of payment |

| Links To | | |
|--------------|--|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Rental | Payment.rental_id = rental.rental_id | Foreign key constraint referencing rental_id |
| Customer | Payment.customer_id = customer.customer_id | Foreign key constraint referencing customer_id |
| Staff | Payment.staff_id = staff.staff_id | Foreign key constraint referencing staff_id |

| Links From | | |
|--------------|-------------|--------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| None | | |

| Keys | | |
|---------------|-----------------|--------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Payment_id | Primary Key | Unique id for each payment |
| Customer_id | Foregin Key | Primary key for customer table |
| Staff_id | Foregin Key | Primary key for staff table |
| Rental_id | Foregin Key | Primary key for rental table |

Rental

| Rental | | |
|---------------|--------------------------------|---|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Rental_id | Serial | Unique identifier for each rental |
| Rental_date | Timestamp(6) without time zone | Date of rental |
| Inventory_id | Integer | Unique identifier for each where rental is held |
| Customer_id | Smallint | Unique identifier for each customer |
| Return_date | Timestamp(6) without time zone | Date rental was returned |
| Last_update | Timestamp(6) without time zone | Date the record was last updated |
| Staff_id | Smallint | Unique identifier for each staff member |

| Links To | | |
|-----------------|--|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Inventory_id | Rental.inventory_id = inventory.inventory_id | Foreign key reference to inventory table |
| Customer_id | Rental.customer_id = customer.customer_id | Foreign key reference to customer table |
| Staff_id | Rental.staff_id = staff.staff_id | Foreign key reference to staff table |

| Links From | | |
|-------------------|--------------------------------------|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Payment | Rental.rental_id = payment.rental_id | References rental_id for payment table |

| Keys | | |
|---------------|-----------------|------------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Rental_id | Primary Key | Unique identifier for rental table |
| Inventory_id | Foreign Key | Primary key for inventory table |
| Customer_id | Foreign Key | Primary key for customer table |
| Staff_id | Foreign Key | Primary key for staff table |

Dimension Tables

Store

| Store | | |
|------------------|--------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Store_id | Serial | Identification number for each store |
| Manager_staff_id | Smallint | Staff ID number of the manager |
| Address_id | Smallint | Identification number for store address |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links To | | |
|--------------|---------------------------------------|---------------------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Address | Store.address_id = address.address_id | Reference to address identifier |
| Staff | Store.manage_staff_id = staff_id | Reference to staff identifier |

| Links From | | |
|--------------|-------------------------------------|------------------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Staff | Store.store_id = staff.store_id | Reference to staff table |
| Inventory | Store.store_id = inventory.store_id | Reference to inventory table |

| Keys | | |
|------------------|-----------------|-------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Store_id | Primary Key | Unique identifier for store |
| Manager_staff_id | Foreign Key | Foreign key for staff table |
| Address_id | Foreign Key | Foreign key for address table |

Film_Actor

| Film_Actor | | |
|---------------|--------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Actor_id | Smallint | Identification number for each actor |
| Film_id | Smallint | Identification number for each film |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links To | | |
|--------------|--------------------------------------|--------------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Actor | Film_actor.actor_id = actor.actor_id | Reference to actor table |
| Film | Film_actor.film_id = film.film_id | Reference to film table |

| Links From | | |
|--------------|-------------|--------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| None | | |

| Keys | | |
|---------------|-----------------|--|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Actor_id | Primary Key | Primary key when combined with film_id, reference to actor table |
| Film_id | Primary Key | Primary key when combined with actor_id, reference to film table |

Inventory

| Inventory | | |
|---------------|--------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Inventory_id | Serial | Identification number for inventory record |
| Film_id | Smallint | Unique identification for each film |
| Store_id | Smallint | Identification number for each store |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links To | | |
|--------------|-------------------------------------|--------------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Film | Inventory.film_id = film.film_id | Reference to film table |
| Store | Inventory.store_id = store.store_id | Reference to store table |

| Links From | | |
|--------------|--|---|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Rental | Inventory.inventory_id = rental.inventory_id | Reference from rental table for inventory |

| Keys | | |
|---------------|-----------------|---------------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Inventory_id | Primary Key | Unique identifier for inventory table |
| Film_id | Foreign Key | Foreign key reference to film table |
| Store_id | Foreign Key | Foreign key reference to store table |

Film_Category

| Film_Category | | |
|----------------------|--------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Film_id | Smallint | Identification number for each film |
| Category_id | Smallint | Identification number for category of film |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links From | | |
|-------------------|-------------|--------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| None | | |

| Keys | | |
|---------------|-----------------|---|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Film_id | Primary Key | Primary key with category id, reference to film table |
| Category_id | Primary Key | Primary key with film_id, reference to category table |

Customer

| Customer | | |
|---------------|--------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Customer_id | Serial | Unique identifier for each customer |
| Store_id | Smallint | Identification of store related to customer |
| First_name | Character Varying(45) | First name of customer |
| Last_name | Character Varying(45) | Last name of customer |
| Email | Character Varying(50) | Email of customer |
| Address_id | Smallint | Address identifier |
| Activebool | Boolean | Stores whether the account is active or not |
| Create_date | Date | Date the customer account was created |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |
| Active | Integer | Integer toggle if account is active: 1=True; 2=false |

| Links To | | |
|--------------|--|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Store | Customer.store_id = store.store_id | Reference to store_id from store table |
| Address | Customer.address_id = address.address_id | Reference to address_id in address table |

| Links From | | |
|--------------|--|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Rental | Customer.customer_id = rental.customer_id | Reference to customer in rental table |
| Payment | Customer.customer_id = payment.customer_id | Reference to customer in payment table |

| Keys | | |
|---------------|-----------------|--------------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Customer_id | Primary Key | Unique identifier for customer table |
| Store_id | Foreign Key | Reference to store table |
| Address_id | Foreign Key | Unique reference to address table |

Staff

| Staff | | |
|---------------|--------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Staff_id | Serial | Unique identifier for each staff member |
| First_name | Character Varying(45) | First name of staff member |
| Last_name | Character Varying(45) | Last name of staff member |
| Address_id | Smallint | Unique identifier for address |
| Email | Character Varying(50) | Email of staff member |
| Store_id | Smallint | Identifier of store for staff member |
| Active | Boolean | Stores whether the staff member is active or not |
| Username | Character Varying(16) | Username of staff member |
| Password | Character Varying(40) | Password of staff member |
| Last_update | Timestamp(6) without time zone | Date and time when record was last updated |
| Picture | Bytea | Picture of staff member |

| Links To | | |
|-----------------|---------------------------------------|---|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Address | Staff.address_id = address.address_id | Unique identifier to reference to address table |
| Store | Staff.store_id = store.store_id | Unique identifier to reference to store table |

| Links From | | |
|--------------|-----------------------------------|---------------------------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Payment | Staff.staff_id = payment.staff_id | Unique staff to link to payment table |
| Rental | Staff.staff_id = rental.staff_id | Unique staff to link to rental table |

| Keys | | |
|---------------|-----------------|-----------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Staff_id | Primary Key | Unique identifier for staff table |
| Store_id | Foreign Key | Reference to store table |
| Address_id | Foreign Key | Unique reference to address table |

Actor

| Actor | | |
|---------------|--------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Actor_id | Serial | Identification number for actor information |
| First_name | Character Varying(45) | First name of actor |
| Last_name | Character Varying(45) | Last name of actor |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links To | | |
|--------------|-------------|--------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| | | None |

| Links From | | |
|--------------|--------------------------------------|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Film_actor | Actor.actor_id = film_actor.actor_id | Unique actor identifier for film_actor table |

| Keys | | |
|---------------|-----------------|-----------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Actor_id | Primary Key | Unique identifier for actor table |

Film

| Film | | |
|------------------|--------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Film_id | Serial | Unique identifier for each film |
| Title | Character Varying(255) | Title of film |
| Description | Text | Description of film |
| Release_year | Year | Year the film was released |
| Language_id | Smallint | Identifier of the language of film |
| Rental_duration | Smallint | Length of time film can be rented |
| Rental_rate | Numeric(4,2) | Average rating of rental |
| Length | Smallint | Length of film in minute |
| Replacement_cost | Numeric(5,2) | Cost to replace film |
| Rating | Mpaa_rating | Rating of the movie |
| Last_update | Timestamp(6) without time zone | Date and time when record was last updated |
| Special_features | Text | Text description of special features of the film |
| Fulltext | Tsvector | Keywords associated with the film |

| Links To | | |
|-----------------|---|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Language | Film.language_id = language.language_id | Reference to language through unique identifier for language table |

| Links From | | |
|---------------|---|---|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Inventory | Film.film_id = inventory.film_id | Unique reference for film to inventory table |
| Film_actor | Film.film_id = film_actor.film_id | Unique reference for film to combine with actor_id in film_actor table |
| Film_category | Film.film_id = film_category.film_id | Unique reference for film to combine with actor_id in film_category table |

| Keys | | |
|---------------|-----------------|---------------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Film_id | Primary Key | Unique identifier for film table |
| Language_id | Foreign Key | Unique reference to language table |

Address

| Address | | |
|---------------|-----------------------------------|--|
| <u>Column</u> | <u>Data Type</u> | <u>Description</u> |
| Address_id | Serial | Unique identifier for each address |
| Address | Character Varying(50) | First line of address |
| Address2 | Character Varying(50) | Second line of address |
| District | Character Varying(20) | District of address |
| City_id | Smallint | Identifier for city associated with address |
| Postal_code | Character Varying(10) | Postal code of address |
| Phone | Character Varying(20) | Phone number associated with address |
| Last_update | Timestamp(6) without time zone | Date and time when record was last updated |

| Links To | | |
|--------------|--------------------------------|---|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| City | Address.city_id = city.city_id | Unique identifier to reference city in city table |

| Links From | | |
|--------------|--|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Store | Address.address_id = store.address_id | Reference to address in store table |
| Staff | Address.address_id = staff.address_id | Reference to address in staff table |
| Customer | Address.address_id = customer.address_id | Reference to address in customer table |

| Keys | | |
|---------------|-----------------|-------------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Address_id | Primary Key | Unique identifier for address table |
| City_id | Foreign Key | Reference to key for city table |

Category

| Category | | |
|----------------|--------------------------------|--|
| <u>Columns</u> | <u>Data Type</u> | <u>Description</u> |
| Category_id | Serial | Identifier for each category of film |
| Name | Character Varying(25) | Name of film category |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links To | | |
|--------------|-------------|--------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| | None | |

| Links From | | |
|---------------|--|---|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Film_category | Category.category_id = film_category.category_id | Reference to primary key in film_category table |

| Keys | | |
|---------------|-----------------|--------------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Category_id | Primary Key | Unique identifier for category table |

Language

| Language | | |
|----------------|--------------------------------|--|
| <u>Columns</u> | <u>Data Type</u> | <u>Description</u> |
| Language_id | Serial | Identifier for the language of each film |
| Name | Character(20) | Name of category |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links To | | |
|--------------|-------------|--------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| | | None |

| Links From | | |
|--------------|---|--|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Film | Language.language_id = film.language_id | Unique identifier in film table for language |

| Keys | | |
|---------------|-----------------|--------------------------------------|
| <u>Column</u> | <u>Key Type</u> | <u>Description</u> |
| Language_id | Primary Key | Unique identifier for language table |

City

| City | | |
|----------------|--------------------------------|--|
| <u>Columns</u> | <u>Data Type</u> | <u>Description</u> |
| City_id | Serial | Identifier for city related to address |
| City | Character Varying(50) | City of address |
| Country_id | Smallint | Identifier for country of address |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links To | | |
|--------------|--------------------------------------|----------------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Country | City.country_id = country.country_id | Reference to country table |

| Links From | | |
|--------------|--------------------------------|------------------------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| Address | City.city_id = address.city_id | Reference to city in address table |

| Keys | | |
|----------------|-----------------|--|
| <u>Columns</u> | <u>Key Type</u> | <u>Description</u> |
| City_id | Primary Key | Unique identifier for city table |
| Country_id | Foreign Key | Reference to primary key for country table |

Country

| Country | | |
|----------------|--------------------------------|--|
| <u>Columns</u> | <u>Data Type</u> | <u>Description</u> |
| Country_id | Serial | Identifier of country related to address |
| Country | Character Varying(50) | Country of address |
| Last_update | Timestamp(6) without time zone | Date and time when the record was last updated |

| Links To | | |
|--------------|-------------|--------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| | None | |

| Links From | | |
|--------------|--------------------------------------|------------------------------------|
| <u>Table</u> | <u>Join</u> | <u>Description</u> |
| City | Country.country_id = city.country_id | Reference to country in city table |

| Keys | | |
|--------------|-----------------|-------------------------------|
| <u>Table</u> | <u>Key Type</u> | <u>Description</u> |
| Country_id | Primary Key | Unique identifier for country |