

Rockbuster Stealth

Data Dictionary

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1. Rockbuster Stealth

Rockbuster Stealth LLC is a movie rental company that is launching an online video rental service. The Rockbuster Stealth data is managed on the Relational Database Management System (RDBMS) of PostgreSQL.

The database contains 3 fact tables and 12 dimension tables, 15 in total. These tables contain information related to Rockbuster's film inventory, customers, rentals, and employees.

Rockbuster's database can be downloaded in this [zip file here](#).

2. Legend



Primary Key



Foreign Key

3. Entity Relationship Diagram (ERD)





ERD created through DbVisualizer

4. Fact Tables

4.1. film_actor

Columns





| | Field name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | Actor_id | Smallint | Actor ID # |
|  | Film_id | Smallint | Film ID # |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Links to

| Table | Join |
|-------|---|
| actor | film_actor.actor_id = actor.actor_id |
| film | film_actor.film_id = film.film_id |

4.2. payment

Columns


| | Columns | Data Type | Description |
|---|--------------|--------------------------------|-------------------------------|
|  | Payment_id | Serial | Payment ID # |
|  | Customer_id | Smallint | Customer ID # |
|  | Staff_id | Smallint | Staff ID # |
|  | Rental_id | Integer | Rental ID # |
| | Amount | Numeric(5,2) | Payment amount |
| | Payment_date | Timestamp(6) without time zone | Date and timestamp of payment |



Links to

| Table | Join |
|----------|---|
| customer | payment.customer_id = customer.customer_id |
| staff | payment.staff_id = staff.staff_id |
| rental | payment.rental_id = rental.rental_id |

4.3. store

Columns

| | Field Name | Data Type | Description |
|---|------------|-----------|-------------|
|  | Store_id | Serial | Store ID # |

| | Field Name | Data Type | Description |
|---|------------------|--------------------------------|-----------------------------------|
|  | Manager_staff_id | Smallint | Manager staff ID # |
|  | Address_id | Smallint | Store address ID # |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |


Links to

| Table | Join |
|---------|---|
| staff | store .store_id = staff.store_id |
| address | store .address_id = address.address_id |

5. Dimension Tables

5.1. actor

Columns



| | Field Name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | Actor_id | Serial | Actor ID # |
| | First_name | Character varying(45) | Actor first name |
| | Last_name | Character varying(45) | Actor last name |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Linked from

| Table | Join |
|------------|--|
| film_actor | actor .actor_id = film_actor.actor_id |

5.2. film

Columns

| | Field Name | Data Type | Description |
|---|------------------|------------------------|---------------------------|
|  | Film_id | Serial | Film ID # |
| | Title | Character varying(255) | Film title |
| | Description | Text | Description of film |
| | Release_year | Year | Film release year |
|  | Language_id | Smallint | Language ID # |
| | Rental_duration | Smallint | Duration of film rental |
| | Rental_rate | Numeric(4,2) | Price rate of film rental |
| | Length | Smallint | Length of film (minutes) |
| | Replacement_cost | Numeric(4,2) | Cost of film replacement |
| | Rating | Mpaa_rating | Film mpaa rating |

| | Field Name | Data Type | Description |
|--|------------------|--------------------------------|-----------------------------------|
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |
| | Special_features | Text[] | Film special features |
| | Fulltext | Tsvector | Full text of film |

Links to


| Table | Join |
|----------|---|
| language | film .language_id = language.language_id |

Linked from

| Table | Join |
|---------------|--|
| film_actor | film .film_id = film_actor.film_id |
| inventory | film .film_id = inventory.film_id |
| film_category | film .film_id = film_category.film_id |

5.3. language

Columns





| | Field Name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | Language_id | Serial | Language ID # |
| | Name | Character(20) | Language name |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Linked from

| Table | Join |
|-------|---|
| film | language .language_id = film.language_id |

5.4. rental

Columns

| | Field Name | Data Type | Description |
|---|--------------|--------------------------------|-----------------------|
|  | Rental_id | Serial | Rental Serial # |
| | Rental_date | Timestamp(6) without time zone | Date of rental |
|  | Inventory_id | Integer | Inventory ID # |
|  | Customer_id | Smallint | Customer ID # |
| | Return_date | Timestamp(6) without time zone | Date of rental return |
|  | Staff_id | Smallint | Staff ID # |

| | Field Name | Data Type | Description |
|--|-------------|--------------------------------|-----------------------------------|
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Links to



| Table | Join |
|-----------|--|
| inventory | rental .inventory_id = inventory.inventory_id |
| customer | rental .customer_id = customer.customer_id |
| staff | rental .staff_id = staff.staff_id |

Linked from

| Table | Join |
|---------|--|
| payment | rental .rental_id = payment.rental_id |

5.5. inventory

Columns

| | Field Name | Data Type | Description |
|--|--------------|--------------------------------|-----------------------------------|
|  | Inventory_id | Serial | Inventory ID # |
|  | Film_id | Smallint | Film ID # |
| | Store_id | Smallint | Store ID # |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Links to



| Table | Join |
|-------|--|
| film | inventory .film_id = film.film_id |

Linked from

| Table | Join |
|--------|--|
| rental | inventory .inventory_id = rental.inventory_id |

5.6. film_category

Columns

| | Field Name | Data Type | Description |
|---|-------------|-----------|---------------|
|  | Film_id | Smallint | Film ID # |
|  | Category_id | Smallint | Category ID # |


| | Field Name | Data Type | Description |
|--|-------------|--------------------------------|-----------------------------------|
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Links to

| Table | Join |
|----------|--|
| film | film_category .film_id = film.film_id |
| category | film_category .category_id = category.category_id |

5.7. category

Columns



| | Field Name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | Category_id | Serial | Category ID # |
| | Name | Character varying(25) | Category name |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Linked from

| Table | Join |
|---------------|--|
| film_category | category .category_id = film_category.category_id |

5.8. customer

Columns

| | Field Name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | Customer_id | Serial | Customer ID # |
| | Store_id | Smallint | Store ID # |
| | First_name | Character varying(45) | Customer first name |
| | Last_name | Character varying(45) | Customer last name |
| | Email | Character varying(45) | Customer email |
|  | Address_id | Smallint | Customer address ID # |
| | Activebool | Boolean | Is customer active? |
| | Create_date | Date | Date of customer creation |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |
| | Active | Integer | Active customer # |

Links to



| Table | Join |
|---------|--|
| address | customer .address_id = address.address_id |

Linked from

| Table | Join |
|---------|--|
| rental | customer .customer_id = rental.customer_id |
| payment | customer .customer_id = payment.customer_id |

5.9. staff

Columns

| | Field Name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | Staff_id | Serial | Staff serial # |
| | First_name | Character varying(45) | Staff first name |
| | Last_name | Character varying(45) | Staff last name |
|  | Address_id | Smallint | Staff address ID # |
| | Email | Character varying(45) | Staff email |
| | Store_id | Smallint | Store ID # |
| | Active | Boolean | Is staff active? |
| | Username | Character varying(16) | Staff username |
| | Password | Character varying(40) | Staff password |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |
| | Picture | bytea | Staff picture |

Links to



| Table | Join |
|---------|---|
| address | staff .address_id = address.address_id |

Linked from

| Table | Join |
|---------|---|
| rental | staff .staff_id = rental.staff_id |
| payment | staff .staff_id = payment.staff_id |
| store | staff .staff_id = store.manager_staff_id |

5.10. address

Columns

| | Field Name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | Address_id | Serial | Address ID # |
| | Address | Character varying(50) | Address |
| | Address2 | Character varying(50) | Address 2 |
| | District | Character varying(20) | Address district |
|  | City_id | Smallint | City ID # |
| | Postal_code | Character varying(10) | Postal code |
| | Phone | Character varying(20) | Address phone # |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Links to



| Table | Join |
|-------|---------------------------------------|
| city | address.city_id = city.city_id |

Linked from

| Table | Join |
|----------|---|
| customer | address.address_id = customer.address_id |
| staff | address.address_id = staff.address_id |
| store | address.address_id = store.address_id |

5.11. city

Columns

| | Field Name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | City_id | Serial | City ID # |
| | City | Character varying(50) | Name of city |
|  | Country_id | Smallint | Country ID # |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Links to


| Table | Join |
|---------|---|
| country | city.country_id = country.country_id |

Linked from

| Table | Join |
|---------|---------------------------------------|
| address | city.city_id = address.city_id |

5.12. country

Columns

| | Field Name | Data Type | Description |
|---|-------------|--------------------------------|-----------------------------------|
|  | Country_id | Serial | Country ID # |
| | Country | Character varying(50) | Name of country |
| | Last_update | Timestamp(6) without time zone | Date and timestamp of last update |

Linked from

| Table | Join |
|-------|---|
| city | country.country_id = city.country_id |