



ROCKBUSTER STEALTH LLC

Data Dictionary

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Rockbuster Stealth LLC

ROCKBUSTER STEALTH LLC is a movie rental company with stores around the world. The Rockbuster database has information on current film rentals. This data can be used to develop a launch strategy for the new online video service.

Entity Relationship Diagram (ERD)







Tables

FACT TABLES

Table: PAYMENT

Columns  Primary Key  Foreign Key

| | Column | Data Type | Description |
|---|--------------|--------------------------------|--------------------------------|
|  | payment_id | INTEGER | Unique identifier for payment |
|  | customer_id | SMALLINT | Unique identifier for customer |
|  | staff_id | SMALLINT | Unique identifier for staff |
|  | rental_id | INTEGER | Unique identifier for rental |
| | amount | NUMERIC (5,2) | Money - payment amount |
| | payment_date | TIMESTAMP(6) WITHOUT TIME ZONE | Payment date |

Links to

| | Table | Join | Description |
|--|----------|--|---|
| | Customer | payment.customer_id = customer.customer_id | Foreign key reference to Customer table |
| | Staff | payment.staff_id = staff.staff_id | Foreign key reference to Staff table |
| | Rental | payment.rental_id = rental.rental_id | Foreign key reference to Rental table |

Linked from

The Payment table does not link from any other tables.

Unique Keys





| | Column | Key Type | Description |
|---|-------------|----------|--------------------------------|
|  | payment_id | Primary | Unique identifier for payment |
|  | customer_id | Foreign | Unique identifier for customer |
|  | staff_id | Foreign | Unique identifier for staff |
|  | rental_id | Foreign | Unique identifier for rental |

Table: RENTAL

Columns  Primary Key  Foreign Key

| | Column | Data Type | Description |
|--|--------|-----------|-------------|
|--|--------|-----------|-------------|

| | | | |
|---|--------------|--------------------------------|---------------------------------|
|  | rental_id | INTEGER | Unique identifier for rental |
| | rental_date | TIMESTAMP(6) WITHOUT TIME ZONE | Time and date of rental |
|  | inventory_id | INTEGER | Unique identifier for inventory |
|  | customer_id | SMALLINT | Unique identifier for customer |
| | return_date | TIMESTAMP(6) WITHOUT TIME ZONE | Date of rental return |
|  | staff_id | SMALLINT | Unique identifier for staff |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time and date last updated |





Links to

| Table | Join | Description |
|-----------|--|--|
| Inventory | rental.inventory_id = inventory.inventory_id | Foreign key reference to Inventory table |
| Customer | rental.customer_id = customer.customer_id | Foreign key reference to Customer table |
| Staff | rental.staff_id = staff.staff_id | Foreign key reference to Staff table |

Linked from

| Table | Join | Description |
|---------|--------------------------------------|--|
| Payment | rental.rental_id = payment.rental_id | Foreign key reference to Payment table |

Unique Keys

| Column | Key Type | Description |
|--|----------|---------------------------------|
|  rental_id | Primary | Unique identifier for rental |
|  inventory_id | Foreign | Unique identifier for inventory |
|  customer_id | Foreign | Unique identifier for customer |
|  staff_id | Foreign | Unique identifier for staff |

DIMENSION TABLES

Table: ACTOR

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|-------------|--------------------------------|-----------------------------|
| actor_id | INTEGER | Unique identifier for actor |
| first_name | CHARVAR(45) | Actor first name |
| last_name | CHARVAR(45) | Actor last name |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time and date last updated |

Links to

The Actor table does not link to any other tables.

Linked from



| Table | Join | Description |
|------------|--------------------------------------|---|
| Film_actor | actor.actor_id = film_actor.actor_id | Foreign key reference to Film_actor table |

Unique keys

| Column | Key Type | Description |
|---|----------|-----------------------------|
|  actor_id | Primary | Unique identifier for actor |

Table: ADDRESS

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|--|--------------------------------|-------------------------------|
|  address_id | INTEGER | Unique identifier for address |
| address | CHARVAR(50) | Address line 1 |
| address2 | CHARVAR(50) | Address line 2 |
| district | CHARVAR(20) | District |
|  city_id | SMALLINT | Unique identifier for city |
| postal_code | CHARVAR(10) | Postal code |
| phone | CHARVAR(20) | Customer phone |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time and date last updated |

Links to

| Table | Join | Description |
|-------|--------------------------------|-------------------------------------|
| City | address.city_id = city.city_id | Foreign key reference to City table |

Linked from

| Table | Join | Description |
|----------|--|-------------------------------|
| Customer | address.address_id = customer.address_id | Foreign key to Customer table |
| Staff | address.address_id = staff.address_id | Foreign key to Staff table |
| Store | address.address_id = store.address_id | Foreign key to Store table |

Unique keys




| Column | Key Type | Description |
|---|----------|-------------------------------|
|  address | Primary | Unique identifier for address |
|  city | Foreign | Unique identifier for city |

Table: CATEGORY

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|---|--------------------------------|--------------------------------|
|  category_id | INTEGER | Unique identifier for category |
| name | CHARVAR(25) | Film Category (Genre Type) |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time and date last updated |

Links to

The Actor table does not link to any other tables.

Linked from



| Table | Join | Description |
|---------------|--|--|
| Film_category | category.category_id = film_category.category_id | Foreign key reference to Film_category table |

Unique keys

| Column | Key Type | Description |
|---|----------|--------------------------------|
|  category_id | Primary | Unique identifier for cateogry |

Table: CITY

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|--|-------------|-------------------------------|
|  city_id | INTEGER | Unique identifier for city |
| city | CHARVAR(50) | City |
|  country_id | SMALLINT | Unique identifier for country |

| | | | |
|--|-------------|--------------------------------|----------------------------|
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Time and date last updated |
|--|-------------|--------------------------------|----------------------------|

Links to

| Table | Join | Description |
|---------|-----------------------------------|--|
| Country | city.country_id - country.city_id | Foreign key reference to Country table |

Linked from

| Table | Join | Description |
|---------|--------------------------------|--|
| Address | address.city_id = city.city_id | Foreign key reference from the Address table |

Unique keys



| Column | Key Type | Description |
|--|----------|-------------------------------|
|  city_id | Primary | Unique identifier for city |
|  country_id | Foreign | Unique identifier for country |

Table: COUNTRY

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|-------------|-----------------------------|-------------------------------|
| country_id | INTEGER | Unique identifier for country |
| country | CHARVAR(50) | Country name |
| last_update | TIMESTAMP WITHOUT TIME ZONE | Time and date last updated |

Links to

The Country table does not link to any other tables.

Linked from


| Table | Join | Description |
|-------|--------------------------------------|-------------------------------------|
| City | country.country_id = city.country_id | Foreign key reference to City table |


Unique keys

| Column | Key Type | Description |
|--|----------|-------------------------------|
|  country_id | Primary | Unique identifier for country |

Table: CUSTOMER

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|---|-----------|--------------------------------|
|  customer_id | INTEGER | Unique identifier for customer |

| | | | |
|---|-------------|-------------|-------------------------------------|
| | store_id | SMALLINT | Unique identifier for store |
| | first_name | CHARVAR(45) | Customer first name |
| | last_name | CHARVAR(45) | Customer last name |
| | email | CHARVAR(50) | Customer email address |
|  | address_id | SMALLINT | Unique identifier for address |
| | activebool | BOOLEAN | Customer status of active or not |
| | create_date | DATE | Date customer added |
| | active | INTEGER | Active status represented by 1 or 0 |

Links to

| Table | Join | Description |
|---------|--|--|
| Address | customer.address_id = address.address_id | Foreign key reference to Address table |

Linked from

| Table | Join | Description |
|---------|--|--|
| Payment | customer.customer_id = payment.customer_id | Foreign key reference to Payment table |
| Rental | customer.customer_id = rental.customer_id | Foreign key reference to Rental table |

Unique keys





| Column | KeyType | Description |
|---|---------|--------------------------------|
|  customer_id | Primary | Unique identifier for customer |
|  address_id | Foreign | Unique identifier for address |

Table: FILM

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|---|--------------|-------------------------------------|
|  film_id | INTEGER | Unique identifier for film |
| title | CHARVAR(255) | Film title |
| description | TEXT | Description of film |
| release_year | INTEGER | Year film was released |
|  language_id | SMALLINT | Unique identifier for language |
| rental_duration | NUMERIC | Number of days that film was rented |
| rental_rate | NUMERIC(4,2) | Money - rental rate per day |

| | | | |
|--|------------------|--------------------------------|---|
| | length | SMALLINT | Film length in minutes |
| | replacement_cost | NUMERIC(5,2) | Money - cost to replace film |
| | rating | USER_DEFINED | Film rating (G, PG-13, R, NC-17) |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time last updated |
| | special_features | ARRAY | Behind the Scenes, Commentaries, Deleted Scenes, Trailers |
| | fulltext | TSVECTOR | Film search keywords |

Links to

| Table | Join | Description |
|----------|---|---|
| Language | film.langauge_id = language.language_id | Foreign key reference to Language table |

Linked from

| Table | Join | Description |
|---------------|--------------------------------------|--|
| Film_actor | film.film_id = film_actor.film_id | Foreign key reference to Film_actor table |
| Inventory | film.film_id = inventory.film_id | Foreign key reference to Inventory table |
| Film_category | film.film_id = film_category.film_id | Foreign key reference to Film_category table |

Unique keys







| Column | Key Type | Description |
|---|----------|-------------------------------------|
|  film_id | Primary | Unique identifier for film |
|  language_id | Foreign | Unique identifier for film language |

Table: FILM_ACTOR

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|--|--------------------------------|-----------------------------|
|   actor_id | SMALLINT | Unique identifier for actor |
|   film_id | SMALLINT | Unique identifier for film |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time last updated |

Links to

| Table | Join | Description |
|-------|--------------------------------------|--------------------------------------|
| Actor | film_actor.actor_id = actor.actor_id | Foreign key reference to Actor table |
| Film | film_actor.film_id = film.film_id | Foreign key reference to Film table |

Linked from

The Film_actor table does not link from any other tables.

Unique keys









| | Column | Key Type | Description |
|---|--|----------|-----------------------------|
|  |  actor_id | Primary | Unique identifier for actor |
|  |  film_id | Primary | Unique identifier for film |

Table: FILM_CATEGORY

Columns  Primary Key  Foreign Key

| | Column | Data Type | Description |
|---|---|--------------------------------|--------------------------------|
|  |  film_id | SMALLINT | Unique identifier for film |
|  |  category_id | SMALLINT | Unique identifier for category |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time last updated |

Links to

| | Table | Join | Description |
|--|----------|--|---|
| | Film | film_category.film_id = film.film_id | Foreign key reference to Film table |
| | Category | film_category.category_id = category.category_id | Foreign key reference to Category table |

Linked from

The Film_category table does not link from any other tables.

Unique keys





| | Column | Key Type | Description |
|---|----------|----------|--------------------------------|
|  | film | Primary | Unique identifier for film |
|  | category | Primary | Unique identifier for category |

Table: INVENTORY

Columns  Primary Key  Foreign Key

| | Column | Data Type | Description |
|---|--------------|-----------|---------------------------------|
|  | inventory_id | INTEGER | Unique identifier for inventory |
|  | film_id | SMALLINT | Unique identifier for film |
| | store_id | SMALLINT | Unique identifier for store |

| | | | |
|--|-------------|--------------------------------|----------------------------|
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time last updated |
|--|-------------|--------------------------------|----------------------------|

Links to

| Table | Join | Description |
|-------|----------------------------------|-------------------------------------|
| Film | inventory.film_id = film.film_id | Foreign key reference to Film table |

Linked from

| Table | Join | Description |
|--------|--|---------------------------------------|
| Rental | inventory.inventory_id - rental.inventory_id | Foreign key reference to Rental table |

Unique keys




| Column | Key Type | Description |
|--|----------|---------------------------------|
|  inventory_id | Primary | Unique identifier for inventory |
|  film_id | Foreign | Unique identifier for film |

Table: LANGUAGE

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|---|--------------------------------|--------------------------------|
|  language_id | INTEGER | Unique identifier for language |
| name | CHAR(20) | Language name |
| last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time last updated |

Links to

The Language table does not link to any other tables.

Linked from


| Table | Join | Description |
|-------|---|-------------------------------------|
| Film | language.language_id = film.language_id | Foreign key reference to Film table |


Unique keys

| Column | Key Type | Description |
|---|----------|--------------------------------|
|  language_id | Primary | Unique identifier for language |

Table: STAFF

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|--|-----------|-----------------------------|
|  staff_id | INTEGER | Unique identifier for staff |

| | | | |
|---|-------------|--------------------------------|--|
| | first_name | CHARVAR(45) | Staff first name |
| | last_name | CHARVAR(45) | Staff last name |
|  | address_id | SMALLINT | Unique identifier for address |
| | email | CHARVAR(50) | Staff email address |
| | store_id | SMALLINT | Unique identifier for store |
| | active | BOOLEAN | Status of whether active staff member or not |
| | username | CHARVAR(16) | Staff username. |
| | password | CHARVAR(40) | Staff password |
| | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time last updated |
| | picture | BYTEA | Staff picture |

Links to

| Table | Join | Description |
|---------|---------------------------------------|--|
| Address | staff.address_id = address.address_id | Foreign key reference to Address table |

Linked from

| Table | Join | Description |
|---------|-----------------------------------|--|
| Rental | staff.staff_id - rental.staff_id | Foreign key reference to Rental table |
| Payment | staff.staff_id = payment.staff_id | Foreign key reference to Payment table |
| Store | staff.staff_id = store.staff_id | Foreign key reference to Store table |

Unique keys







| Column | Key Type | Description |
|--|----------|-------------------------------|
|  staff_id | Primary | Unique identifier for staff |
|  address_id | Foreign | Unique identifier for address |

Table: STORE

Columns  Primary Key  Foreign Key

| Column | Data Type | Description |
|--|-----------|-------------------------------------|
|  store_id | INTEGER | Unique identifier for store |
|  manager_staff_id | SMALLINT | Unique identifier for staff manager |
|  address_id | SMALLINT | Unique identifier for store address |

| | | | |
|---|-------------|--------------------------------|----------------------------|
|  | last_update | TIMESTAMP(6) WITHOUT TIME ZONE | Date and time last updated |
|---|-------------|--------------------------------|----------------------------|




Links to

| Table | Join | Description |
|---------|---|--|
| Staff | store.manager_staff_id = staff.staff_id | Foreign key reference to Staff table |
| Address | store.address_id = address.address_id | Foreign key reference to Address table |

Linked from

The Store table does not link from any other tables.

Unique keys

| Column | Key Type | Description |
|--|----------|-------------------------------------|
|  store_id | Primary | Unique identifier for store |
|  manager_staff_id | Foreign | Unique identifier for staff manager |
|  address_id | Foreign | Unique identifier for store address |