

Rockbuster Stealth LLC

Data Dictionary



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Table of Contents

1. About Rockbuster Stealth LLC.....	1
2. Entity Relationship Diagram (ERD).....	1
3. List of Tables.....	2
3.1 Fact Tables.....	2
3.1.1 Payment.....	2
3.1.2 Rental.....	2
3.2 Dimension Tables.....	3
3.2.1 Actor.....	3
3.2.2 Address.....	3
3.2.3 Category.....	3
3.2.4 City.....	4
3.2.5 Country.....	4
3.2.6 Customer.....	4
3.2.7 Film.....	5
3.2.8 Film Actor.....	5
3.2.9 Film Category.....	5
3.2.10 Inventory.....	6
3.2.11 Language.....	6
3.2.12 Staff.....	6
3.2.13 Store.....	7





1. 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.

2. Entity Relationship Diagram (ERD)



3. List of Tables

Symbol	Significance
	Primary Key
	Foreign Key
	Links to
	Links from

3.1 FACT TABLES

3.1.1 Payment





Key	Columns	Data Type	Description
	payment_id	serial	(Primary key) ID assigned to payment
	customer_id	SMALLINT	(Foreign key) ID assigned to customer
	staff_id	SMALLINT	(Foreign key) ID assigned to staff member
	rental_id	INTEGER	(Foreign key) ID assigned to rental
	amount	NUMERIC (5,2)	Amount paid by customer
	payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date on which payment took place



Table	Join
Rental	payment.rental_id=rental.rental_id
Customer	rental.customer_id=customer.customer_id
Staff	rental.staff_id=staff.staff_id

3.1.2 Rental





Key	Columns	Data Type	Description
	rental_id	serial	(Primary key) ID assigned to rental
	rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	date on which the item was rented
	inventory_id	INTEGER	ID assigned to item in the inventory table
	customer_id	SMALLINT	ID assigned to customer
	return_date	TIMESTAMP (6) WITHOUT TIME ZONE	date on which item's rental period expires
	staff_id	SMALLINT	(Foreign key) ID assigned to staff member
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
Inventory	rental.inventory_id=inventory.inventory_id
Customer	rental.customer_id=customer.customer_id
Staff	rental.staff_id=staff.staff_id



Table	Join
Payment	payment.rental_id=rental.rental_id

3.2 DIMENSION TABLES

3.2.1 Actor


Key	Columns	Data Type	Description
	actor_id	Serial	(Primary key) ID assigned to item in inventory
	first_name	CHARACTER VARYING (45)	Lead actor's first name
	last_name	CHARACTER VARYING (45)	Lead actor's surname
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
Film Actor	film_actor.actor_id=actor.actor_

3.2.2 Address



Key	Columns	Data Type	Description
	address_id	Serial	(Primary key) ID assigned to store address
	address	CHARACTER VARYING (50)	Address first line
	address2	CHARACTER VARYING (50)	Address second line
	district	CHARACTER VARYING (20)	Address district
	city_id	SMALLINT	(Foreign key) ID assigned to city
	postal_code	CHARACTER VARYING (10)	Address postal or ZIP code
	phone	CHARACTER VARYING (20)	phone number associated with address
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
City	address.city_id=city.city_id_



Table	Join
Store	store.address_id=address.address_id
Staff	staff.address_id=address.address_id
Customer	customer.address_id=address.address_id

3.2.3 Category


Key	Columns	Data Type	Description
	category_id	Serial	(Primary key) ID assigned to a category
	name	CHARACTER VARYING (25)	Category name
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
Film Category	film_category.category_id=category_category_id

3.2.4 City



Key	Columns	Data Type	Description
	city_id	Serial	(Primary key) ID assigned to city
	city	CHARACTER VARYING (50)	City name
	country_id	SMALLINT	(Foreign key) ID assigned to country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
Country	city.country_id=country.country_id



Table	Join
Address	address.city_id=city.city_id

3.2.5 Country


Key	Columns	Data Type	Description
	country_id	Serial	(Primary key) ID assigned to country
	country	CHARACTER VARYING (50)	Country name
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
City	city.country_id=country.country_id

3.2.6 Customer



Key	Columns	Data Type	Description
	customer_id	Serial	(Primary key) ID assigned to customer
	store_id	SMALLINT	ID assigned to store
	first_name	CHARACTER VARYING (45)	customer first name
	last_name	CHARACTER VARYING (45)	customer surname
	email	CHARACTER VARYING (52)	customer email address
	address_id	SMALLINT	(Foreign key) ID assigned to customer address
	activebool	BOOLEAN	three possible values: true, false or null
	create_date	DATE	date on which record was created
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated
	active	INTEGER	binary indicating customer active or not



Table	Join
Address	customer.address_id=address.address_id



Table	Join
Rental	rental.customer_id=customer.customer_id
Payment	payment.customer_id=customer.customer_id

3.2.7 Film



Key	Columns	Data Type	Description
	film_id	Serial	(Primary key) ID assigned to film
	title	CHARACTER VARYING (255)	film title
	description	TEXT	film description
	release_year	YEAR	film release date
	language_id	SMALLINT	(Foreign key) ID assigned to film language
	rental_duration	SMALLINT	how long the item was rented for
	rental_rate	NUMERIC (4,2)	how often the item was rented
	length	SMALLINT	film duration
	replacement_cost	NUMERIC (5,2)	how much it cost to (possibly) replace the item
	rating	MPAA_RATING	rating assigned to film by MPAA
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated
	special_features	TEXT []	features available extra to the film itself
	fulltext	TSVECTOR	numerous keywords describing the item

Table	Join
Language	film.language_id=language.language_id

Table	Join
Film Actor	Film_actor.film_id=film.film_id
Film Category	Film.category.film_id=film.film_id
Inventory	Inventory.film_id=film.film_id

3.2.8 Film Actor



Key	Columns	Data Type	Description
	actor_id	SMALLINT	(Foreign key) ID assigned to lead actor
	film_id	SMALLINT	(Foreign key) ID assigned to film title
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated

Table	Join
Actor	film_actor.actor_id=actor.actor_id
Film	film_actor.film_id=film.film_id

3.2.9 Film Category



Key	Columns	Data Type	Description
	film_id	SMALLINT	(Foreign key) ID assigned to film title
	category_id	SMALLINT	(Foreign key) ID assigned to a category
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated

Table	Join
Category	film_category.category_id=category.category_id
Film	film_category.film_id=film.film_id

3.2.10 Inventory



Key	Columns	Data Type	Description
	inventory_id	Serial	(Primary key) ID assigned to item in inventory
	film_id	SMALLINT	(Foreign key) ID assigned to film title
	store_id	SMALLINT	(Foreign key) ID assigned to store where item was rented
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
Film	inventory.film_id=film.film_id



Table	Join
Rental	rental.inventory_id=inventory.inventory_id

3.2.11 Language


Key	Columns	Data Type	Description
	language_id	Serial	(Primary key) ID assigned to a language
	name	CHARACTER (45)	Language name
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
Film	Film.language_id=language.language_id

3.2.12 Staff



Key	Columns	Data Type	Description
	staff_id	SMALLINT	(Primary key) ID assigned to staff member
	first_name	CHARACTER VARYING (45)	staff member first name
	last_name	CHARACTER VARYING (45)	staff member surname
	address_id	SMALLINT	(Foreign key) ID assigned to customer address
	email	CHARACTER VARYING (52)	staff member email address
	store_id	SMALLINT	(Foreign key) ID assigned to store address
	active	INTEGER	binary indicating staff member active or not
	username	CHARACTER VARYING (16)	staff member username
	password	CHARACTER VARYING (40)	staff member username
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated
	picture	BYTEA	staff member picture of limited size



Table	Join
Address	Staff.address_id=address.address_id



Table	Join
Rental	rental.staff_id=staff.staff_id
Store	store.address_id=staff.address_id
Payment	payment.staff_id=staff.staff_id

3.2.13 Store




Key	Columns	Data Type	Description
	store_id	Serial	(Primary key) ID assigned to store
	manager_staff_id	SMALLINT	(Foreign key) ID assigned to store manager
	address_id	SMALLINT	(Foreign key) ID assigned to store address
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date on which info was updated



Table	Join
Address	store.address_id=address.address_id
Staff	store.staff_id=staff.staff_id