

Rockbuster Stealth

DATA DICTIONARY

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CareerFoundry

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Contents

- 1. Entity Relation Diagram.....2
- 2. Legends2
- 3. Fact tables3
 - 3.1 *payment*.....3
 - 3.2 *rental*.....3
- 4. Dimension tables4
 - 4.1 *store*.....4
 - 4.2 *film_actor*.....4
 - 4.3 *actor*.....4
 - 4.4 *inventory*.....5
 - 4.5 *film*5
 - 4.6 *language*6
 - 4.7 *film_category*.....6
 - 4.8 *category*6
 - 4.9 *customer*7
 - 4.10 *staff*.....7
 - 4.11 *address*8
 - 4.12 *city*8
 - 4.13 *country*.....9

1. Entity Relation Diagram







Rockbuster Stealth database has a snowflake schema. Here, fact tables are related to dimension tables through primary and foreign keys. Detailed data is stored in subdimension tables. For instance, *customer* and *staff* tables are related to the *country* table through the *address* and *city* tables.

2. Legends

Key type	Symbol
Primary key	
Foreigner key	

3. Fact tables





3.1 *payment*

Key	Columns	Data Type	Description
	payment_id	serial	Unique ID to payment transaction
	customer_id	smallint	Unique ID linked to customer
	staff_id	smallint	Unique ID linked to the staff
	rental_id	serial	Unique ID to rental transaction
	amount	numeric (5, 2)	Amount of the payment
	payment_date	timestamp (6) without time zone	Date when payment was made

Links to

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

3.2 *rental*

Key	Columns	Data Type	Description
	rental_id	Serial	Unique ID to rental transaction
	rental_date	Timestamp (6) without time zone	When movie was rented
	inventory_id	integer	Unique ID linked to the inventory
	customer_id	smallint	Unique ID linked to customer
	return_date	Timestamp (6) without time zone	Date when movie was returned
	staff_id	smallint	Unique ID linked to the staff
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated

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

Links from

Table	Join
payment	payment.rental_id = rental.rental_id

4. Dimension tables

4.1 *store*

Key	Columns	Data Type	Description
	store_id	serial	Unique ID for a store
	manager_staff_id	smallint	Unique ID for a manager
	address_id	smallint	Unique ID for a store
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated

Links to

Table	Join
staff	store.address_id = staff.address_id
address	store.address_id = address.address_id


4.2 *film_actor*

Key	Columns	Data Type	Description
	actor_id	smallint	Unique ID for an actor
	film_id	smallint	Unique ID for a film
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated

Links to

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



4.3 *actor*

Key	Columns	Data Type	Description
	actor_id	smallint	Unique ID for an actor
	first_name	Character varying (45)	First name of the actor
	last_name	Character varying (45)	Last name of the actor
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated

Links from

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

4.4 inventory

Key	Columns	Data Type	Description
	inventory_id	serial	Unique ID for an inventory
	film_id	smallint	Unique ID for a film
	store_id	serial	Unique ID for a store
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated



Links to

Table	Join
film	inventory.film_id = film.film_id

Links from

Table	Join
rental	rental.inventory_id = inventory.inventory_id

4.5 film

Key	Columns	Data Type	Description
	film_id	smallint	Unique ID for a film
	title	Character varying (255)	Films title
	description	text	Films description
	release_year	year	Films year release
	language_id	smallint	Films language
	rental duration	smallint	Duration of the rental
	rental_rate	Numeric (4,2)	Films rating rental
	length	smallint	Films length
	replacement_cost	Numeric (5, 2)	Films cost replacement
	rating	Mpaa_rating	Films rating
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated
	special features	text	Special films feature
	fulltext	TSvector	How much text is used to describe the film


Links to

Table	Join
language	film.language_id = language.language_id

Links from

Table	Join
film_actor	film_actor.film_id = film.film_id
inventory	inventory.film_id = film.film_id



4.6 language

Key	Columns	Data Type	Description
	language_id	smallint	Films language
	name	Character (20)	Languages name
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated

Links from

Table	Join
film	film.language_id = language.language_id


4.7 film_category

Key	Columns	Data Type	Description
	film_id	smallint	Unique ID for a film
	category_id	smallint	Unique ID for a category
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated

Links to

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



4.8 category

Key	Columns	Data Type	Description
	category_id	smallint	Unique ID for a category
	name	Character (25)	Category name
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated

Links from

Table	Join
film_category	film_category.category_id = category.category_id

4.9 customer

Key	Columns	Data Type	Description
	customer_id	serial	Unique ID for a customer
	store_id	serial	Unique ID for a store
	first_name	Character varying (45)	First name of the customer
	last_name	Character varying (45)	Last name of the customer
	email	Character varying (50)	Customers email
	address_id	smallint	Unique ID for a customer address
	create_date	date	Date when the account was created
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated
	active	integer	Active account



Links to

Table	Join
address	customer.address_id = address.address_id

Links from

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

4.10 staff

Key	Columns	Data Type	Description
	staff_id	serial	Unique ID for a staff
	first_name	Character varying (45)	First name of the staff
	last_name	Character varying (45)	Last name of the staff
	address_id	smallint	Unique ID for a staff address
	email	Character varying (50)	Staffs email
	store_id	serial	Unique ID for a store
	active	boolean	Active true or false
	username	Character varying (16)	Staff username
	password	Character varying (40)	Staff password
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated
	picture	bytea	Staffs photo



Links to

Table	Join
address	staff.address_id = address.address_id

Links from

Table	Join
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff_id
store	store.address_id = staff.address_id

4.11 address

Key	Columns	Data Type	Description
	address_id	serial	Unique ID for an address
	address	Character varying (50)	Main address
	address2	Character varying (50)	Backup address
	district	Character varying (20)	District
	city_id	Small int	Unique ID for a city
	postal_code	Character varying (10)	Addresss postal code
	phone	Character varying (20)	Phone number
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated



Links to

Table	Join
city	address.city_id = city.city_id

Links from

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

4.12 city

Key	Columns	Data Type	Description
	city_id	serial	Unique ID for a city
	city	Character varying (50)	City name
	country_id	smallint	Unique ID for a country
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated


Links to

Table	Join
country	country.country_id = city.country_id

Links from

Table	Join
address	address.city_id = city.city_id

4.13 *country*

Key	Columns	Data Type	Description
	country_id	serial	Unique ID for a country
	country	Character varying (50)	Country name
	last_update	Timestamp (6) without time zone	Date and time when the information was recently updated

Links from

Table	Join
city	city.country_id = country.country_id