Career Foundry

ROCKBUSTER STEALTH DATA DICTIONARY

Marília Machado 02/11/2024

Table of Contents

1.	The Company		.4
2.	Entity Relationship Diagram (ERD)		
3.	Fact Tables		5
	a. Renta	l	.5
	i.	Columns	.5
	ii.	Links to	.5
	iii.	Linked from	.5
	iv.	Unique Keys	.6
	b. Payme	ent	6
	i.	Columns	.6
	ii.	Links to	.6
	iii.	Linked from	.7
	iv.	Unique Keys	7
4.	Dimension Ta	ables	.7
	a. Invent	ory	.7
	i.	Columns	.7
	ii.	Links to	.7
	iii.	Linked from	.8
	iv.	Unique Keys	.8
	b. Film_c	category	8
	i.	Columns	.8
	ii.	Links to	.8
	iii.	Linked from	8
	iv.	Unique Keys	.9
	c. Categ	ory	••
	9		
	i.	Columns	.9
	ii.	Links to	.9
	iii.	Linked from	.9
	iv.	Unique Keys	9

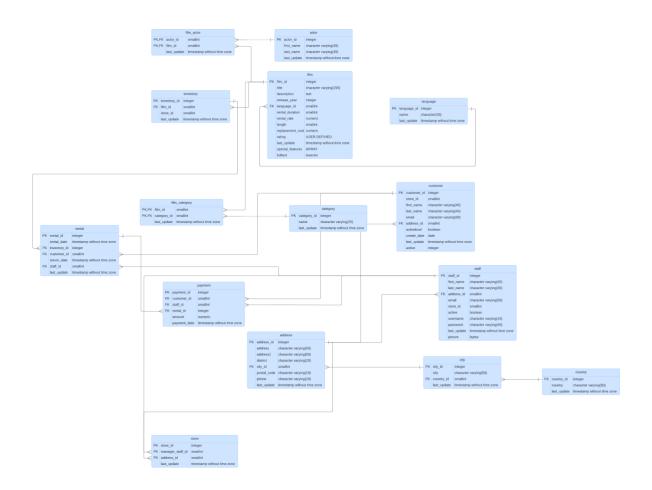
d.	Store.		10
	i.	Columns	10
	ii.	Links to	10
	iii.	Linked from	10
	iv.	Unique Keys	10
e.	Staff		11
	i.	Columns	11
	ii.	Links to	11
	iii.	Linked from	11
	iv.	Unique Keys	12
f.	Langu	ıage	12
	i.	Columns	12
	ii.	Links to	12
	iii.	Linked from	12
	iv.	Unique Keys	12
g.	Film		13
	i.	Columns	13
	ii.	Links to	13
	iii.	Linked from	13
	iv.	Unique Keys	13
h.	Actor.		14
	i.	Columns	14
	ii.	Links to	14
	iii.	Linked from	14
	iv.	Unique Keys	14
i.	Film_a	actor	14
	i.	Columns	14
	ii.	Links to	15
	iii.	Linked from	15
	iv.	Unique Keys	15
j.	Addre	SS	15
	i	Columns	15

	ii.	Links to	16
	iii.	Linked from	16
	iv.	Unique Keys	16
k.	City		16
	i.	Columns	16
	ii.	Links to	16
	iii.	Linked from	17
	iv.	Unique Keys	17
l.	Count	try	17
	i.	Columns	17
	ii.	Links to	17
	iii.	Linked from	17
	iv.	Unique Keys	17
m.	Custo	mer	18
	i.	Columns	18
	ii.	Links to	18
	iii.	Linked from	18
	iv	Unique Keys	18

1. The Company

Rockbuster Stealth LLC is a movie rental company that used to have stores worldwide. However, 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 to stay competitive.

2. Entity Relationship Diagram (ERD)



3. Fact Tables

a. Rental

i. Columns

Columns	Data Type	Description
Rental_id	Integer	Unique identifier for a rental transaction
Rental_date	Timestamp without time zone	Date and time of the film rental
Inventory_id	Integer	Unique identifier for each inventory item
Customer_id	Smallint	Unique identifier for each customer
Return_date	Timestamp without time zone	Date and time of the rented movie return
Staff_id	Smallint	Unique identifier for each staff employee
Last_update	Timestamp without time zone	Date and time of the last update of the data

ii. 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

iii. Linked from

<i>Tab</i> le Join	
payment	rental.rental_id =
	payment.rental_id,
	rental.customer_id =
	payment.customer_id

iv. Unique Keys

Columns	Data Type	Description
RentaLid	Integer	Unique identifier for a rental transaction
Inventory_id	Integer	Unique identifier for each inventory item
Customer_id	Smallint	Unique identifier for each customer
Staff_id	Smallint	Unique identifier for each staff employee

b. Payment

i. Columns

Columns	Data Type	Description
Payment_id	Integer	Unique identifier for
		payment
Customer_id	Smallint	Unique identifier for each
		customer
Staff_id	Smallint	Unique identifier for each
		staff employee
Rental_id	Integer	UJnique identifier for each
		film rental
Amount	Numeric	Cost value of each
		payment transaction
Payment_date	Timestamp without time	Date and time for each
	zone	payment transaction

ii. Links to

Table	Join
rental	payment.rental_id =
	rental.rental_id
customer	<pre>payment.customer_id =</pre>
	customer.customer_id
staff	<pre>payment.staff_id =</pre>
	staff.staff_id

iii. Linked from

There are no tables linked from the payment table.

iv. Unique Keys

Columns	Data Type	Description
Rental_id	Integer	Unique identifier for a
		rental transaction
Inventory_id	Integer	Unique identifier for each
		inventory item
Customer_id	Smallint	Unique identifier for each
		customer
Staff_id	Smallint	Unique identifier for each
		staff employee

3. Dimension Tables

a. Inventory

i. Columns

Columns	Data Type	Description
Inventory_id	Integer	Unique identifier for each
		inventory item
Film_id	Smallint	Unique identifier for each
		film
Store_id	Smallint	Unique identifier for each
		store
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

Table	Join
film	<pre>inventory.film_id =</pre>
	film.film_id

iii. Linked from

Table	Join
rental	<pre>inventory.inventory_id =</pre>
	rental.inventory_id

iv. Unique Keys

Columns	Data Type	Description
Inventory_id	Integer	Unique identifier for each
		inventory item
Film_id	Smallint	Unique identifier for each
		film
Store_id	Smallint	Unique identifier for each
		store

b. Film_category

i. Columns

Columns	Data Type	Description
Film_id	Smallint	Unique identifier for each
		film
Category_id	Smallint	Unique identifier for each
		category
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

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

iii. Linked from

There are no tables linked from the film_category table.

iv. Unique Keys

Columns	Data Type	Description
Film_id	Smallint	Unique identifier for each
		film
Category_id	Smallint	Unique identifier for each
		category

c. Category

i. Columns

Columns	Data Type	Description
Category_id	integer	Unique identifier for each
		film category
Name	Character varying(25)	Category name
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

The category table doesn't link to any other tables.

iii. Linked from

Table	Join
film_category	category.category_id =
	film_category.category_id

Columns	Data Type	Description
Category_id	integer	Unique identifier for each
		film category

d. Store

i. Columns

Columns	Data Type	Description
Store_id	Integer	Unique identifier for each
		store
Manager_staff_id	Smallint	Unique identifier for each
		staff manager
Address_id	smallint	Unique identifier for each
		address
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

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

iii. Linked from

There are no tables linked from the store table.

Columns	Data Type	Description
Store_id	Integer	Unique identifier for each
		store
Manager_staff_id	Smallint	Unique identifier for each
		staff manager
Address_id	smallint	Unique identifier for each
		address

e. Staff

i. Columns

Columns	Data Type	Description
Staff_id	Integer	Unique identifier for each
		staff employee
First_name	Character varying(45)	First name of each staff
		employee
Last_name	Character varying(45)	Last name of each staff
		employee
Address_id	Smallint	Unique identifier for the
		address of each staff
		employee
Email	Character varying(50)	Email of each staff
		employee
Store_id	Smallint	Unique identifier for each
		store
active	Boolean	Active or not (if they are
		still employed there)
Username	Character varying(16)	Username of each
		employee
Password	Character varying(40)	Password of each
		employee
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data
picture	bytea	Photo of the staff
•		

ii. Links to

Table	Join
address	staff.address_id =
	address.address_id

iii. Linked from

Table	Join
store	staff.address_id =
	store.address_id

iv. Unique Keys

Columns	Data Type	Description
Staff_id	Integer	Unique identifier for each
		staff employee
Address_id	Smallint	Unique identifier for the
		address of each staff
		employee
Store_id	Smallint	Unique identifier for each
		store

f. Language

i. Columns

Columns	Data Type	Description
Language_id	Integer	Unique identifier for each
		language
Name	Character(20)	Name of each language
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

The language table doesn't link to any other tables.

iii. Linked from

Table	Join
film	language.language_id =
	film.language_id

Columns	Data Type	Description
Language_id	Integer	Unique identifier for each
		language

g. Film

i. Columns

Columns	Data Type	Description
Film_id	integer	Unique identifier
Title	Character varying(255)	Film title
Description	text	Film description
Release_year	integer	Year the film was released
Language_id	smallint	Unique identifier for each
		language
Rental_duration	smallint	How long the film was
		rented for
Rental_rate	numeric	Rent cost of each film
Length	smallint	The duration of each film
Replacement_cost	numeric	Cost to replace a film
Rating	USER_DEFINED	Classification/rating given
		by each customer
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data
Special features	ARRAY	Besides the film, which
		other content each film
		contains
fulltext	tsvector	Keywords about each film

ii. Links to

Table	Join
language	film.language_id =
	language.language_id

iii. Linked from

Join
film.film_id =
inventory.film_id

Columns	Data Type	Description
Film_id	integer	Unique identifier
Language_id	smallint	Unique identifier for each
		language

h. Actor

i. Columns

Columns	Data Type	Description
actor_id	Integer	Unique identifier for each
		actor
First_name	Character varying(45)	First name of each actor
Last_name	Character varying(45)	Last name of each actor
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

The actor table doesn't link to any other tables.

iii. Linked from

Table	Join
film_actor	actor.actor_id =
	film_actor.actor_id

iv. Unique Keys

Columns	Data Type	Description
actor_id	Integer	Unique identifier for each
		actor

i. Film_actor

i. Columns

Columns	Data Type	Description
Actor_id	Smallint	Unique identifier for each
		actor
Film_id	Smallint	Unique identifier for each
		film
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

i. Links to

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

ii. Linked from

There are no tables linked from the film_actor table.

Unique Keys

Columns	Data Type	Description
Actor_id	Smallint	Unique identifier for each
		actor
Film_id	Smallint	Unique identifier for each
		film

j. Address

i. Columns

Columns	Data Type	Description
Address_id	Integer	Unique identifier for each
		address
Address	Character varying(50)	Customer address
Address2	Character varying(50)	Customer address
		continuation in case of
		larger addresses
District	Character varying(20)	Address district
City_id	smallint	Unique identifier for each
		city
Postal_code	Character varying(10)	Address postal code
phone	Character varying(20)	Customer's phone number
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

Table	Join
city	address.city_id =
	city.city_id

iii. Linked from

Table	Join
staff	address.address_id =
	staff.address_id

iv. Unique keys

Columns	Data Type	Description
Address_id	Integer	Unique identifier for each
		address
City_id	smallint	Unique identifier for each
		city

k. City

i. Columns

Columns	Data Type	Description
City_id	integer	Unique identifier for each
		city
city	Character varying(50)	Name of the city
Country_id	smallint	Unique identifier for each
		country
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

Table	Join
country	city.country_id =
	country.country_id

iii. Linked from

Table	Join
address	city.address_id =
	address.address_id

iv. Unique Keys

Columns	Data Type	Description
City_id	integer	Unique identifier for each
		city
Country_id	smallint	Unique identifier for each
		country

l. Country

i. Columns

Columns	Data Type	Description
Country_id	integer	Unique identifier for each
		country
country	Character varying(50)	Name of the country
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data

ii. Links to

The country table doesn't link to any other tables.

iii. Linked from

Table	Join
city	country.country_id =
	city.country_id

Columns	Data Type	Description
Country_id	integer	Unique identifier for each
		country

m. Customer

i. Columns

Columns	Data Type	Description
Customer_id	integer	Unique identifier for each
		customer
Store_id	smallint	Unique identifier for each
		store
First_name	Character varying(45)	Customer's first name
Last_name	Character varying(45)	Customer's last name
Email	Character varying(50)	Customer's email
Address_id	Smallint	Unique identifier for each
		address
activebool	Boolean	If the customer profile is
		active or not (still a
		customer or not)
Create_date	date	Date the customer profile
		was created
Last_update	Timestamp without time	Date and time of the last
	zone	update of the data
active	integer	Active or not

ii. Links to

Table	Join
address	customer.address_id =
	address.address_id

iii. Linked from

Table	Join
rental	<pre>customer.customer_id =</pre>
	rental.customer_id

Columns	Data Type	Description
Customer_id	integer	Unique identifier for each
		customer
Store_id	smallint	Unique identifier for each
		store
Address_id	Smallint	Unique identifier for each
		address