

ROCKBUSTER STEALTH LLC

Data dictionary



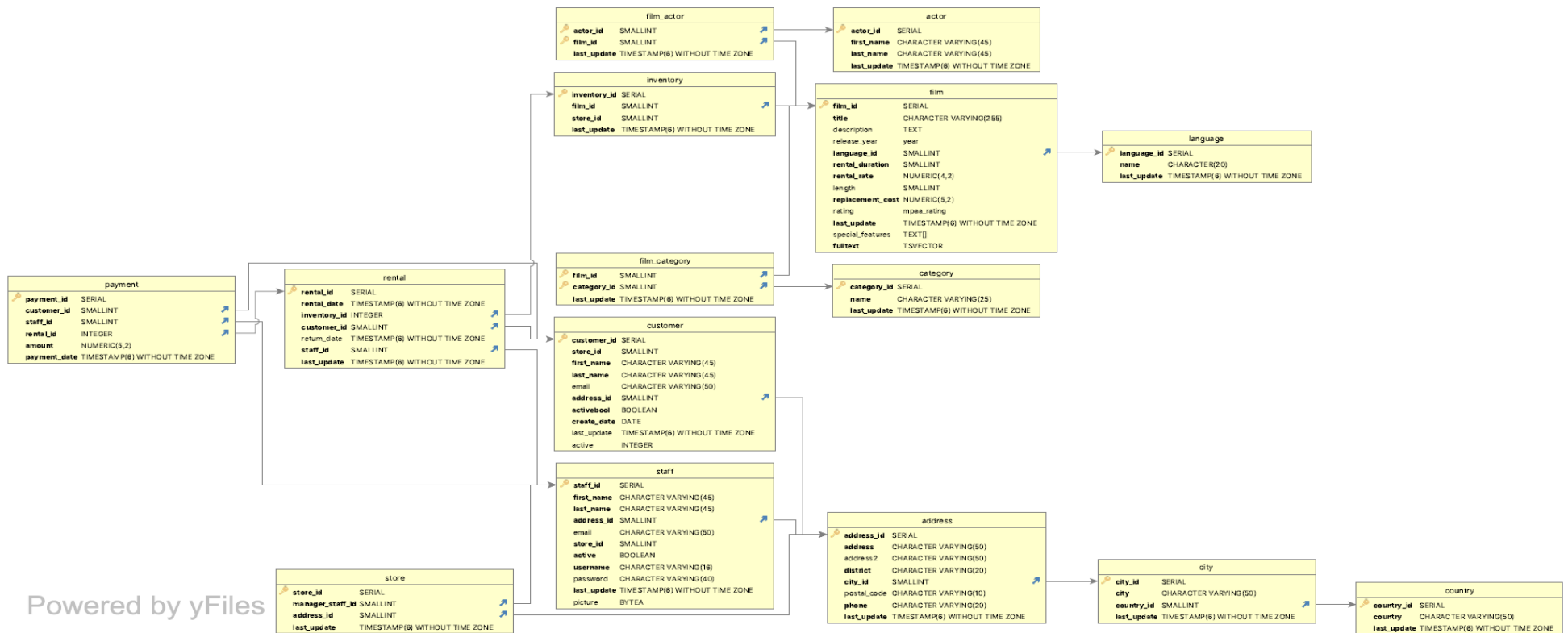
FEBRUARY, 2024

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Table of Contents

1.Entity Relationship Diagram (ERD)	3
2.Legend	4
3.Tables	4
3.1 Fact Tables:	4
3.1.1 Payment	4
3.1.2 Rental	6
3.2 Dimension Tables:	7
3.2.1 Inventory	7
3.2.2 Film - Actor	8
3.2.3 Actor	9
3.2.4 Language	10
3.2.5 Category	10
3.2.6 Film - Category	11
3.2.7 Film	11
3.2.8 Customer	13
3.2.9 Store	14
3.2.10 Staff	15
3.2.11 City	16
3.2.12 Address	17
3.2.13 Country	18





1.Entity Relationship Diagram (ERD)



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ROCKBUSTER STEALTH LLC Data Dictionary


2. Legend




	Primary key		Links To
	Foreign key		Links From

3. Tables




3.1 Fact Tables:

3.1.1 Payment





Payment			
Columns		Data type	Description
	payment_id	SERIAL	Primary key, Unique Id for each row in this table

	customer_id	SMALLINT	Foreign key to link customer table, Unique Id for each row in that table
	staff_id	SMALLINT	Foreign key to link staff table, Unique Id for each row in that table
	rental_id	INTEGER	Foreign key to link rental table, Unique Id for each row in that table
	amount	NUMERIC(5,2)	A real number with 5 digits with 2 number after the decimal point, rental price
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date the rent has happened





Links

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

3.1.2 Rental



Rental			
	Columns	Data type	Description
	rental_id	SERIAL	Primary key, Unique Id for each row in this table
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rent has begun
	inventory_id	TIMESTAMP(6) WITHOUT TIME ZONE	Foreign key to link inventory table, Unique Id for each row in that table
	customer_id	SMALLINT	Foreign key to link customer table, Unique Id for each row in that table
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rent has finished
	staff_id	SMALLINT	Foreign key to link staff table, Unique Id for each row
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links


	customer	rental.customer_id = customer.customer_id
	staff	rental.staff_id = staff.staff_id
	inventory	rental.inventory_id = inventory.inventory_id
	payment	payment.rental_id = rental.rental_id

3.2 Dimension Tables:



3.2.1 Inventory

Inventory			
Columns		Data type	Description
	inventory_id	SERIAL	Primary key, Unique Id for each row in this table
	film_id	SMALLINT	Foreign key to link film table, Unique Id for each row in that table
	store_id	SMALLINT	A unique Id in store table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple



Links

	film	inventory.film_id = film.film_id
	rental	rental.inventory_id = inventory.inventory_id


3.2.2 Film - Actor

Film_actor			
Columns		Data type	Description
	actor_id	SMALLINT	Composite key, Foreign key to link actor table
	film_id	SMALLINT	Composite key, Foreign key to link film table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

	actor	film_actor.actor_id = actor.actor_id
	film	film_actor.film_id = film.film_id


3.2.3 Actor

Actor			
Columns		Data type	Description
	actor_id	SERIAL	Primary key, Unique Id for each row in this table
	first_name	CHARACTER VARYING(45)	First name of the actor, variable-length string up to 45 characters
	last_name	CHARACTER VARYING(45)	Last name of the actor, variable-length string up to 45 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

	actor	film_actor.actor_id = actor.actor_id
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3.2.4 Language

Language			
Columns		Data type	Description
	language_id	SERIAL	Primary key, Unique Id for each row in this table
	name	CHARACTER(20)	Name of the language, Fixed-length string up to 20 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

	film	film_language_id = language.language_id
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3.2.5 Category

Category			
Columns		Data type	Description
	category_id	SERIAL	Primary key, Unique Id for each row in this table
	name	CHARACTER VARYING(25)	Name of the film's category (genre), variable-length string up to 25 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple



Links

	Film_category	film-category.category_id = category.category_id
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3.2.6 Film - Category


Film_category			
Columns		Data type	Description
	film_id	SMALLINT	Composite key, Foreign key to link film table
	category_id	SMALLINT	Composite key, Foreign key to link category table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links





	category	film-category.category_id = category.category_id
	film	film-category.film_id = film.film_id

3.2.7 Film



Film			
Columns		Data type	Description
	film_id	SERIAL	Primary key, Unique Id for each row in this table
	title	CHARACTER VARYING(255)	Name of the film, variable-length string up to 255 characters
	description	TEXT	Explanations, variable-length string without limitation

	release_year	year	Year of film's publication
	language_id	SMALLINT	Foreign key to link language table, Unique Id for each row in there
	rental_duration	SMALLINT	Small integer, number of days film was rented
	rental_rate	NUMERIC(4,2)	A real number with 4 digits with 2 number after the decimal point, rental rate
	length	SMALLINT	Small integer, length of the film
	replacement_cost	NUMERIC(5,2)	A real number with 5 digits with 2 number after the decimal point, cost
	rating	mpaa_rating	Film rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple
	special_features	TEXT	Further explanations, variable-length string without limitation
	fulltext	TSVECTOR	Text which is used full-text searches

Links

	language	film_language_id = language.language_id
	Film_actor	film_actor.film_id = film.film_id
	inventory	inventory.film_id = film.film_id
	film_category	film-category.film_id = film.film_id

3.2.8 Customer

Customer			
Columns		Data type	Description
	customer_id	SERIAL	Primary key, Unique Id for each row in this table
	store_id	SMALLINT	A unique Id in store table
	first_name	CHARACTER VARYING(45)	First name of customer, variable-length string up to 45 characters
	last_name	CHARACTER VARYING(45)	Last name of customer, variable-length string up to 45 characters
	email	CHARACTER VARYING(50)	Customer's email, variable-length string up to 50 characters
	address_id	SMALLINT	Foreign key to link address table, Unique Id for each row in that table
	activebool	BOOLEAN	True or Fales value based on customer's status
	create_date	DATE	Date of customer's account creation
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple
	active	INTEGER	A number to indicate a customer is active or not

Links

»»»	address	customer.address_id = address.address_id
«««	payment	payment.customer_id = customer.customer_id
«««	rental	rental.customer_id = customer.customer_id



3.2.9 Store

store			
	Columns	Data type	Description
🔑	store_id	SERIAL	Primary key, Unique Id for each row
🔑	manager_staff_id	SMALLINT	Foreign key to link staff table, Unique Id for each row in that table
🔑	address_id	SMALLINT	Foreign key to link address table, Unique Id for each row in that table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple



Links

»»»	staff	store.store_id = staff.store_id
»»»	address	store.address_id = address.address_id

3.2.10 Staff

Staff			
Columns		Data type	Description
	staff_id	SERIAL	Primary key, Unique Id for each row in this table
	first_name	CHARACTER VARYING(45)	First name of staff, variable-length string up to 45 characters
	last_name	CHARACTER VARYING(45)	Last name of staff, variable-length string up to 45 characters
	address_id	SMALLINT	Foreign key to link address table, Unique Id for each row in that table
	email	CHARACTER VARYING(50)	Staff's email, variable-length string up to 50 characters
	Store_id	SMALLINT	A unique Id in store table
	active	BOOLEAN	True or Fales value based on staff's account status
	username	CHARACTER VARYING(16)	Staff's account username, variable-length string up to 16 characters
	password	CHARACTER VARYING(40)	Staff's account password, variable-length string up to 40 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple
	active	INTEGER	A number to indicate a staff is active or not
	Picture	BYTEA	Staff's picture

Links

	address	staff.address_id = address.address_id
	payment	payment.staff_id = staff.staff_id

⏏	rental	rental.staff_id = staff.staff_id
⏏	store	store.store_id = staff.store_id



3.2.11 City

City			
Columns		Data type	Description
🔑	city_id	SERIAL	Primary key, Unique Id for each row in this table
	city	CHARACTER VARYING(50)	Name of the city, variable-length string up to 50 characters
🔑	country_id	SMALLINT	Foreign key to link country table, Unique Id for each row in that table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple





Links

⏏	country	city.country_id = country.country_id
⏏	address	city.city_id = address.city_id


3.2.12 Address

Address			
Columns		Data type	Description
	address_id	SERIAL	Primary key, Unique Id for each row
	address	CHARACTER VARYING(50)	Address, variable-length string up to 50 characters
	address2	CHARACTER VARYING(50)	Address, variable-length string up to 50 characters
	district	CHARACTER VARYING(20)	District, region, state, variable-length string up to 20 characters
	city_id	SMALLINT	Foreign key to link city table, Unique Id for each row in that table
	postal_code	CHARACTER VARYING(10)	Postal code, variable-length string up to 10 characters
	phone	CHARACTER VARYING(20)	Phone number, variable-length string up to 20 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

	city	city.city_id = address.city_id
	customer	customer.address_id = address.address_id
	staff	staff.address_id = address.address_id
	store	store.address_id = address.address_id

3.2.13 Country

Country			
Columns		Data type	Description
	Country_id	SERIAL	Primary key, Unique Id for each row in this table
	country	CHARACTER VARYING(50)	Name of the country, variable-length string up to 50 characters
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time and date of the last changes happened to each tuple

Links

	city	city.country_id = country.country_id
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