Rockbuster Stealth LLC

Data Dictionary

2023-07-01

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1. Rockbuster Entity Relationship Diagram
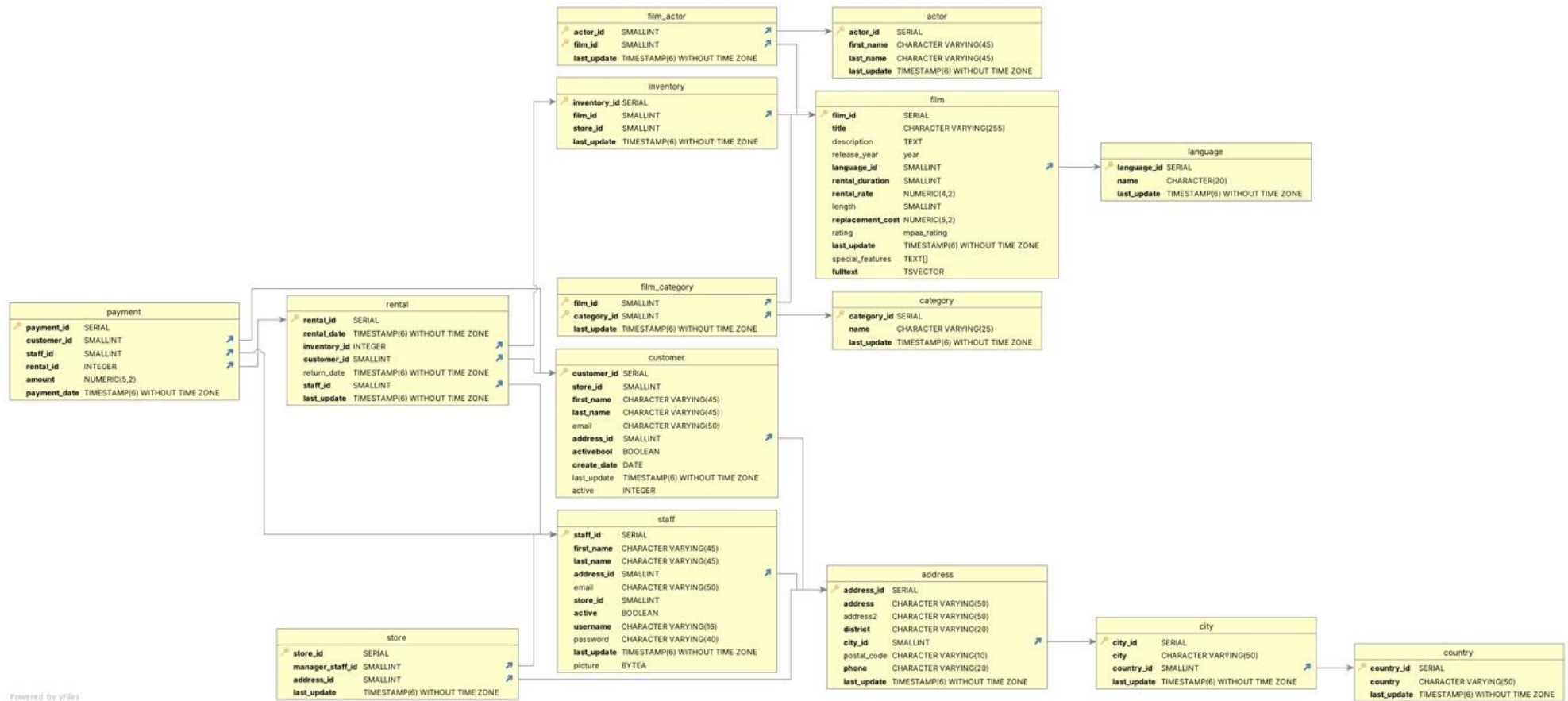
2. Fact Tables

Legend:

🔑 Primary Key

🗝 Foreign Key

⌐→ Links to

←⌐ Linked From

2.1: Payment

	Column	Data Type	Description
🔑	Payment_id	SERIAL	Payment identification number
🗝	Customer_id	SMALLINT	Customer identification number
🗝	Staff_id	SMALLINT	Staff identification number
🗝	Rental_id	INTEGER	Rental identification number
	Amount	NUMBERIC(5,2)	Amount paid
	Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date that payment was made

Links To:

	Table	**Join**
⌐→	Rental	Payment.rental_id = Rental.rental_id
⌐→	Staff	Payment.staff_id = Staff.staff_id
⌐→	Customer	Payment.customer_id = Customer.customer_id

Linked From:
None

Unique Keys:

	Columns	**Name / Description**
🔑	payment_id	Primary key of payment table

2.2: Rental

	Column	Data Type	Description
🔑	Rental_id	SERIAL	Rental identification number
	Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date that rental was made
🔑	Inventory_id	INTEGER	Identification number of inventory item rented
🔑	Customer_id	SMALLINT	Customer identification number
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date that rental was returned
🔑	Staff_id	SMALLINT	Staff identification number
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the data was 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

Linked From:

	Table	Join
↰	Payment	Payment.rental_id = Rental.rental_id

Unique Keys:

	Columns	Name / Description
🔑	Rental_id	Primary key of rental table

3. Dimension Tables

3.1: Film_actor

	Column	Data Type	Description
🔑	Actor_id	SMALLINT	Actor identification number
🔑	Film_id	SMALLINT	Film identification number
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:

	Table	Join
⌐	Actor	Film_actor.actor_id = Actor.actor_id
⌐	Film	Film_actor.film_id = Film.film_id

Linked From:
None

Unique Keys:

	Columns	**Name / Description**
🔑	Actor_id	Primary key of film_actor table

3.2: Inventory

	Column	Data Type	Description
🔑	Inventory_id	SERIAL	Identification number of inventory item rented
🔑	Film_id	SMALLINT	Film identification number
🔑	Store_id	SMALLINT	Store identification number
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:

	Table	Join
⌐	Film	Film_actor.film_id = Film.film_id
⌐	Store	Inventory.store_id = Store.store_id

Linked From:

	Table	Join
⌐	Rental	Inventory.inventory_id = Rental.inventory_id

Unique Keys:

	Columns	Name / Description
🔑	Inventory_id	Primary key of inventory table

3.3: Film_category

	Column	Data Type	Description
🔑	Film_id	SMALLINT	Film identification number
🔑	Category_id	SMALLINT	Category identification number
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:

	Table	Join
↗	Film	Film_category.film_id = Film.film_id
↗	category	Film_category.category_id = Category.category_id

Linked From:
None

Unique Keys:

	Columns	Name / Description
🔑	Film_id	Primary key of film_category table

3.4: Customer

	Column	Data Type	Description
🔑	Customer_id	SERIAL	Customer identification number
	Store_id	SMALLINT	Store identification number
	First_name	CHARACTER VARYING(45)	Customer first name
	Last_name	CHARACTER VARYING(45)	Customer last name
	Email	CHARACTER VARYING(50)	Customer email address
🔑	Address_id	SMALLINT	Address identification number
	Activebool	BOOLEAN	Boolean format corresponding to "Active" status
	Create_date	DATE	Date that the record was created
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

		INTEGER	1 indicates the customer is active and 0 indicates the customer is inactive
	Active		

Links To:

	Table	Join
⌐	Address	Customer.address_id = Address.address_id

Linked From:

	Table	Join
⌐	Rental	Customer.customer_id = Rental.customer_id

Unique Keys:

	Columns	Name / Description
🗝	customer_id	Primary key of customer table

3.5: Store

	Column	Data Type	Description
🗝	Store_id	SERIAL	Store identification number
🔑	Manager_staff_id	SMALLINT	Manager's staff identification number
🔑	Address_id	SMALLINT	Address identification number
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:

	Table	Join
⌐	Staff	Store.manager_staff_id = Staff.staff_id
⌐	Address	Store.address_id = Address.address_id

Linked From:
None

Unique Keys:

	Columns	Name / Description
🗝	store_id	Primary key of store table

3.6: Staff

	Column	Data Type	Description
🔑	Staff_id	SERIAL	Staff identification number
	First_name	CHARACTER VARYING(45)	Staff member's first name
	Last_name	CHARACTER VARYING(45)	Staff member's last name
🔑	Address_id	SMALLINT	Address identification number
	Email	CHARACTER VARYING(50)	Staff member's email address
	Store_id	SMALLINT	Store identification number
	Username	CHARACTER VARYING(45)	Staff member's username
	Password	CHARACTER VARYING(45)	Staff member's password
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated
	Picture	BYTEA	Staff member's picture

Links To:

	Table	Join
↱	Address	Staff.address_id = Address.address_id

Linked From:

	Table	Join
↰	Payment	Staff.staff_id = Payment.staff_id

Unique Keys:

	Columns	Name / Description
🔑	staff_id	Primary key of staff table

3.7: Actor

	Column	Data Type	Description
🔑	Actor_id	SERIAL	Actor identification number
	First_name	CHARACTER VARYING(45)	Actor's first name
	Last_name	CHARACTER VARYING(45)	Actor's last name
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:
None

Linked From:

	Table	Join
↰	Film_actor	Film_actor.actor_id = Actor.actor_id

Unique Keys:

	Columns	Name / Description
🔑	actor_id	Primary key of actor table

3.8: Film

	Column	Data Type	Description
🔑	Film_id	SERIAL	Film identification number
	title	CHARACTER VARYING(255)	Film's title
	Description	TEXT	Film's description
	Release_year	Year	Film's release year
🔑	Language_id	SMALLINT	Film's language identification number
	Rental_duration	SMALLINT	How long was the movie rented
	Rental_rate	NUMERIC(4,2)	How much was charged for the rental
	Length	SMALLINT	How long is the film
	Replacement_cost	NUMBERIC(5,2)	How much would it cost to replace the film
	Rating	Mpaa_rating	The rating of the film (G,PG,R, etc.)
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

	Special_features	TEXT[]	Any special features of the rental (i.e. trailer, bonus content, etc.)
	Fulltext	TVSECTOR	Optimized words from the description for text search

Links To:

	Table	Join
⤳	Language	Film.language_id = Language.language_id

Linked From:

	Table	Join
⤶	Inventory	Film.film_id = Inventory.film_id

Unique Keys:

	Columns	Name / Description
🔑	Film_id	Primary key of film table

3.9: Category

	Column	Data Type	Description
🔑	Category_id	SERIAL	Film category identification number
	Name	CHARACTER VARYING(25)	Name of the category
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:
None

Linked From:

	Table	Join
⤶	Film_category	Category.category_id = Film_category.category_id

Unique Keys:

	Columns	Name / Description
🔑	Category_id	Primary key of category table

3.10: Language

	Column	Data Type	Description
🔑	language_id	SERIAL	Language Identification number
	Name	CHARACTER(20)	Name of the language
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:
None

Linked From:

	Table	Join
↰	film	Language.language_id = Film.language_id

Unique Keys:

	Columns	Name / Description
🔑	Language_id	Primary key of language table

3.11: Address

	Column	Data Type	Description
🔑	address_id	SERIAL	Address identification number
	Address	CHARACTER VARYING(50)	Number and Street Name
	Address2	CHARACTER VARYING(50)	Apartment/unit number presumably
	District	CHARACTER VARYING(20)	State/Province/Locale
🔑	City_id	SMALLINT	City identification number
	Postal_code	CHARACTER VARYING(10)	Postal Code
	Phone	CHARACTER VARYING(20)	Phone Number
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the data was updated

Links To:

	Table	Join
↱	City	Address.city_id = City.city_id

Linked From:

	Table	Join
↰	Store	Address.address_id = Store.address_id
↰	Staff	Address.address_id = Staff.address_id
↰	Customer	Address.address_id = Customer.address_id

Unique Keys:

	Columns	Name / Description
⚷	Address_id	Primary key of address table

3.12: City

	Column	Data Type	Description
⚷	city_id	SERIAL	City identification number
	City	CHARACTER VARYING(50)	City name
⚷	Country_id	SMALLINT	County identification number
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:

	Table	Join
↱	Country	City.country_id = Country.country_id

Linked From:

	Table	Join
↰	Address	City.city_id = Address.city_id

Unique Keys:

	Columns	Name / Description
⚷	City_id	Primary key of city table

3.12: Country

	Column	Data Type	Description
🔑	country_id	SERIAL	Country identification number
	country	CHARACTER VARYING(50)	Country name
	Last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Last time the data was updated

Links To:
None

Linked From:

	Table	Join
↰	City	Country.country_id = City.country_id

Unique Keys:

	Columns	Name / Description
🔑	Country_id	Primary key of country table