Rockbuster Stealth
Data Dictionary
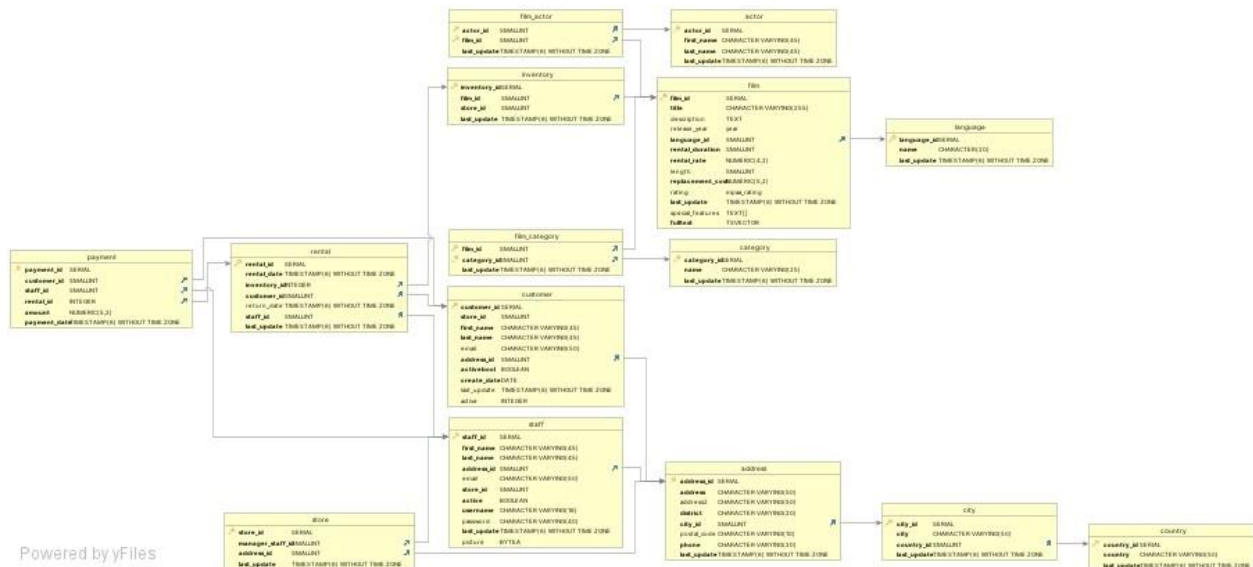
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Data Storage & Structure
Rockbuster Entity Relationship Diagram (ERD):

Rockbuster Stealth LLC, a once globally present movie rental enterprise, is now confronted with intense competition from streaming giants like Netflix and Amazon Prime. In response, the management at Rockbuster Stealth is strategizing to utilize their current movie licenses for the introduction of an online video rental service, aiming to sustain competitiveness in the evolving market.

Legend Key:	
🔑 = primary key	🔑 = foreign key

Fact Table:
Payment

	Columns	*Data type*	*Description*
🔑	payment_id	serial	Unique number identifying each payment transaction
🔑	customer_id	smallint	Unique customer ID
🔑	staff_id	smallint	Unique Staff ID
🔑	rental_id	integer	Unique ID number for each rental instance
	amount	numeric(5,2)	Amount of payment in USD
	payment_date	timestamp(6) w/o time zone	Date and time the payment was made

Link to:

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

Dimension Table:
Rental

	Columns	Data type	Description
🔑	rental_id	serial	Unique ID number used for primary key for rentals.
	rental_date	Timestamp(6) w/o time zone	Date and time for the rental
🔑	inventory_id	integer	Unique inventory ID
🔑	customer_id	smallint	Unique customer ID
	return_date	timestamp(6) w/o time zone	Date and time of rental return
🔑	staff_id	smallint	Unique Staff ID
	last_update	timestamp(6) w/o time zone	Date and time of last update of product status

Link to:

Table	Join
customer	rental.customer_id = customer.customer_id
inventory	rental.inventory_id = inventory.inventory_id
staff	rental.staff_id = staff.staff_id

Link from:

Table	Join
payment	payment.rental_id = rental.rental_id

Dimension Table:
Store

	Columns	Data type	Description
🔑	store_id	integer	Unique Store ID
🔑	manager_staff_id	smallint	Unique Manager Staff ID
🔑	address_id	smallint	Unique Address ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Link to:

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

Link from:

Table	Join
staff	staff.store_id = store.store_id
customer	customer.store_id= store.store_id
inventory	inventory.store_id = store.store_id

Dimension Table: Film_Actor

	Columns	Data type	Description
🔑🔑	actor_id	smallint	Unique Actor ID
🔑🔑	film_id	smallint	Unique Film ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links to:

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

Dimension Table: Film_Category

	Columns	Data type	Description
🔑🔑	film_id	smallint	Unique Film ID
🔑🔑	category_id	smallint	Unique Category ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links to:

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

Dimension Table:
Inventory

	Columns	Data type	Description
🔑	inventory_id	serial	Unique Actor ID
🔑	film_id	smallint	Unique Film ID
🔑	store_id	smallint	Unique Store ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links to:

Table	Join
film	Inventory.film_id = film.film_id
store	Inventory.store_id = store.store_id

Links from:

Table	Join
rental	rental.inventory_id = inventory.inventory_id

Dimension Table:
Customer

	Columns	Data type	Description
🔑	customer_id	serial	Unique Customer ID
🔑	store_id	smallint	Unique Store ID
	first_name	character varying(45)	Customer First Name
	last_name	character varying(45)	Customer Last Name
	email	character varying(50)	Customer email
🔑	address_id	smallint	Unique Address ID
	activebool	boolean	True or False on activity
	create_date	date	Date Customer Account was created
	last_update	timestamp(6) w/o time zone	Time and Date of last update
	active	integer	0 or 1 to indicate activity

Links to:

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

Links from:

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

Dimension Table:
Staff

	Columns	Data type	Description
🔑	staff_id	serial	Unique Staff ID
	first_name	character varying(45)	Staff first name
	last_name	character varying(45)	Staff last name
🔑	address_id	smallint	Unique Address ID
	email	character varying(50)	Staff Email
	store_id	smallint	Unique Store ID
	active	boolean	True or False on staff active
	username	character varying(16)	Staff username
	password	character varying(40)	Staff password
	last_update	timestamp(6) w/o time zone	Time and Date of last update
	picture	bytea	Photo of staff member

Links to:

Table	Join
address	staff.address_id = address.address_id

Links from:

Table	Join
payment	payment.staff_id = staff.staff_id
rental	customer.customer_id = rental.customer_id
store	store.manager_staff_id = staff.staff_id

Dimension Table:
Actor

	Columns	Data type	Description
🔑	actor_id	serial	Unique actor ID
	first_name	character varying(45)	Actor first name
	last_name	character varying(45)	Actor last name
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links from:

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

Dimension Table:
Category

	Columns	Data type	Description
🔑	category_id	Serial	Unique category ID
	name	character varying(25)	Name of type of category
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links from:

Table	Join
film_category	film_category.category_id = category.category_id

Dimension Table:
Film

	Columns	Data type	Description
🔑	film_id	serial	Unique film ID
	title	character varying(255)	Film title name
	description	text	Film full description
	release_year	year	Year of film release
🔑	language_id	smallint	Unique language ID
	rental_duration	smallint	Film length time ID
	rental_rate	numeric(4,2)	Rental usage rate
	length	smallint	Film length in minutes
	replacement_cost	numeric(5,2)	Price of film replacement
	rating	mpaa_rating	Film mpaa rating
	last_update	timestamp(6) w/o time zone	Time and Date of last update
	special_features	Text	Special features that accompany the film
	fulltext	tsvector	Text search vectors for full film text searches

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
film_category	film_category.film_id = film.film_id

Dimension Table:
Address

	Columns	Data type	Description
🔑	address_id	serial	Unique address ID
	address	character varying(50)	Street address
	address2	character varying(50)	Second line of street address for unit or apartment number, etc
	district	character varying(20)	State, province, or territory of address
🔑	city_id	smallint(16)	Unique city ID
	postal_code	character varying(10)	Full postal code
	phone	character varying(20)	Phone number
	last_update	timestamp(6) w/o time zone	Time and Date of last update

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

Dimension Table:
Language

	Columns	Data type	Description
🔑	language_id	serial	Unique language ID
	name	character(20)	Language name
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links from:

Table	Join
film	film.language_id = language.language_id

Dimension Table:
City

	Columns	Data type	Description
🔑	city_id	serial	Unique city ID
	city	Character varying(50)	City name
🔑	country_id	smallint	Unique country ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links to:

Table	Join
country	city.country_id = country.country_id

Links from:

Table	Join
country	country.country_id = city.country_id
address	address.city_id = city.city_id

Dimension Table:
Country

	Columns	Data type	Description
🔑	country_id	serial	Unique country ID
	country	Character varying(50)	Name of Country
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links from:

Table	Join
city	city.country_id = country.country_id