Rockbuster Stealth

Data Dictionary

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Entity Relationship Dictionary (ERD)
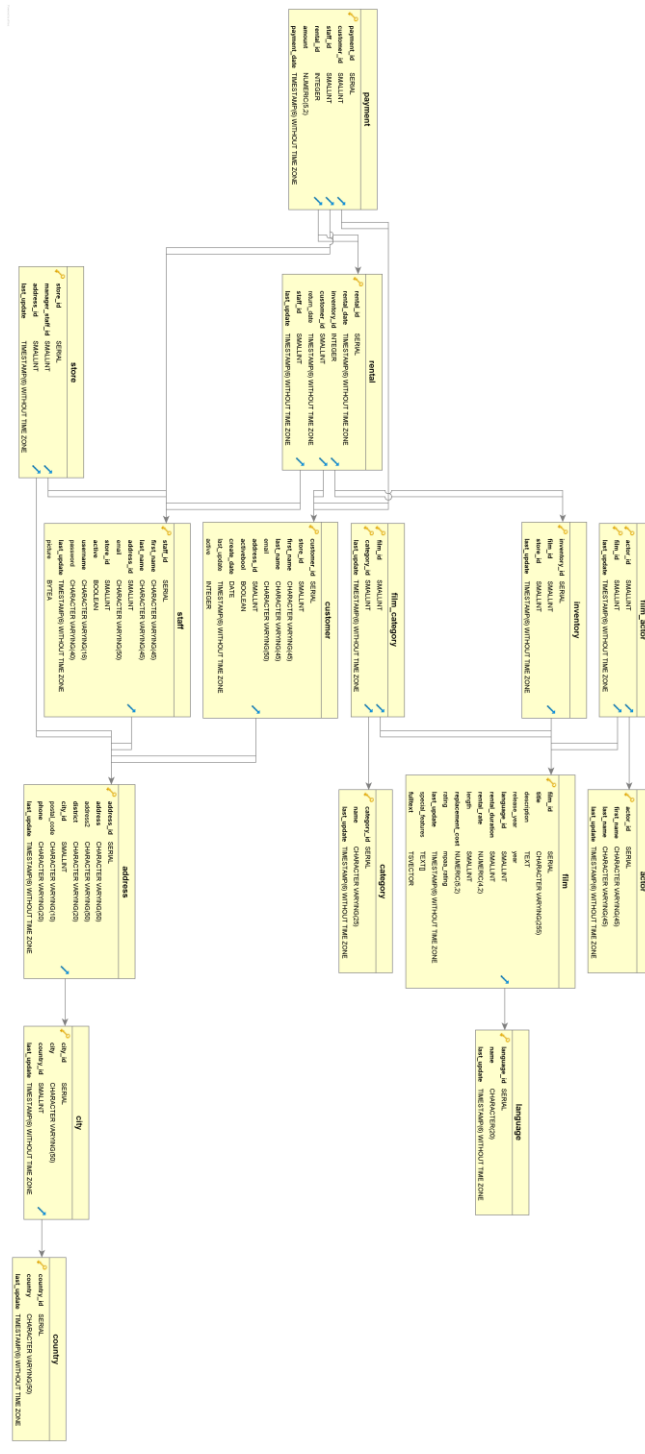
Figure 1: ERD (Snowflake Schema) The fact table is surrounded by many dimension tables.

Legend

🔑	**Primary Key**
🔑	**Foreign Key**

Fact table:

Rental

Key	Column	Data Type	Description	Link Within
🔑	Rental_id	SERIAL	Unique identification number assigned to each rental	Payment
	Rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of rental	
🔑	Inventory_id	INTEGER	Identification number assigned for record keeping	Inventory
🔑	Customer_id	SMALLINT	Identification number assigned to each customer when the rental was issued	Customer
	Return_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date and time of return	
🔑	Staff_id	SMALLINT	Identification number assigned to each staff	Staff
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last update	

Dimension Tables:

Inventory

Key	Column	Data type	Description	Link Within
🔑	Inventory_id	SERIAL	Unique identification number assigned for record keeping	Rental
🔑	Film_id	SMALLINT	Identification number assigned to each film	Film
🔑	Store_id	SMALLINT	Identification number assigned to each store	Store
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	

Staff

Key	Column	Data Type	Description	Link Within
🔑	Staff_id	SERIAL	Unique identification number assigned to each staff	Payment, Rental
	First_name	CHARACTER VARYING (45)	First name of staff	
	Last_name	CHARACTER VARYING (45)	Last name of staff	
🔑	Address_id	SMALLINT	Postal address of staff	Address
	Email	CHARACTER VARYING (45)	Email address of staff	
🔑	Store_id	SMALLINT	Identification number assigned to each store	Store
	Active	BOOLEAN	Whether the status is active or not	
	Username	CHARACTER VARYING (16)	Username of staff	
	Password	CHARACTER VARYING (40)	Password that staff used with username	
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	
	Picture	BYTEA	Picture of staff member	

Customer

Key	Column	Data Type	Description	Link Within
🔑	Customer_id	SERIAL	Unique identification number assigned to each customer	Payment, Rental
🔑	Store_id	SMALLINT	Identification number assigned to each store	Store
	First_name	CHARACTER VARYING (45)	First name of customer	
	Last_name	CHARACTER VARYING (45)	Last name of customer	
	Email	CHARACTER VARYING (50)	Email address of customer	
🔑	Address_id	SMALLINT	Postal address of customer	Address
	Activebool	BOOLEAN	Whether status of customer is active or not	
	Create_date	DATE	Date of when customer's account was created	
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	
	Active	INTEGER	Status of customer	

Film Category

Key	Column	Data type	Description	Link Within
(yellow key)	Film_id	SMALLINT	Unique identification number assigned to each film	Film
(blue key)	Film_category	SMALLINT	Unique identification number assigned to each category	Category
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	

Film Actor

Key	Column	Data type	Description	Link Within
	Actor_id	SMALLINT	Unique identification number assigned to each actor	Actor
	Film_id	SMALLINT	Unique identification number assigned to each film	Film
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	

Store

Key	Column	Data type	Description	Link Within
🔑	Store_id	SERIAL	Unique identification number assigned to each store	Customer, Inventory, Staff
	Manager_staff_id	SMALLINT	Identification number of manager of store	
🔑	Address_id	SMALLINT	Postal address of store	Address
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	

Payment

Key	Column	Data type	Description	Link Within
🔑	Payment_id	SERIAL	Unique Identification number assigned for payment	
🔑	Customer_id	SMALLINT	Identification number assigned to each customer	Customer
🔑	Staff_id	SMALLINT	Identification number assigned to each staff	Staff
🔑	Rental_id	INTEGER	Identification number assigned to each rental	Rental
	Amount	NUMERIC (5,2)	Amount paid by customer	
	Payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Time of payment	

Actor

Key	Column	Data type	Description	Link Within
	Actor_id	SERIAL	Unique identification number assigned to each actor	Film Actor
	First_name	CHARACTER VARYING (45)	First name of actor	
	Last_name	CHARACTER VARYING (45)	Last name of actor	
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	

Film

Key	Column	Data Type	Description	Link Within
🔑	Film_id	SERIAL	Unique identification number assigned to each film	Film Actor, Film, Category, Inventory
	Title	CHARACTER VARYING (255)	Title of film	
	Description	TEXT	What the film is about	
	Release_year	Year	The year that the film was released	
🔑	Language_id	SMALLINT	Identification number assigned to the language(s) the film is available in	Language
	Rental_duration	SMALLINT	Length of time that film was rented out for	
	Rental_rate	NUMERIC (4,2)	Total revenue of each film rental	
	Length	SMALLINT	Length of film in minutes	
	Replacement_cost	NUMERIC (5,2)	Cost to replace film if lost or defective	
	Rating	Mpaa_rating	Rating of film	
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	
	Special_features	TEXT[]	Any special feature included in the film (ex. Sign language)	
	Fulltext	TSVECTOR	Keywords	

Language

Key	Column	Data type	Description	Link Within
🔑	Language_id	SERIAL	Unique identification number assigned to each language	Film
	Name	CHARACTER (20)	Name of language	
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	

Category

Key	Column	Data type	Description	Link Within
🔑	Category_id	SERIAL	Unique identification number assigned to each category	Film Category
	Name	CHARACTER VARYING (25)	Name of category	
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	

Address

Key	Column	Data type	Description	Link Within
🔑	Address_id	SERIAL	Unique identification number assigned to each address of store	Customer, Staff, Store
	Address	CHARACTER VARYING (50)	Address of store	
	Address2	CHARACTER VARYING (50)	Additional address of store	
	District	CHARACTER VARYING (20)	District of store	
🔑	City_id	SMALLINT	Identification number assigned to city of store	City
	Postal_code	CHARACTER VARYING (10)	Postal code of city of store	
	Phone	CHARACTER VARYING (20)	Store phone number	
	Last_update	TIMESTAMP (6) WITHOUT THE ZONE	Time of last updated status	

City

Key	Column	Data type	Description	Link Within
🔑	City_id	SERIAL	Unique identification number assigned to each city	Address
	City	CHARACTER VARYING (50)	Name of city	
🔑	Country_id	SMALLINT	Identification number assigned to each country	Country
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	

Country

Key	Column	Data type	Description	Link Within
🔑	Country_id	SERIAL	Unique identification number assigned to each country	City
	Name	CHARACTER VARYING (50)	Name of country	
	Last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status	