Rockbuster Stealth LLC Data dictionary

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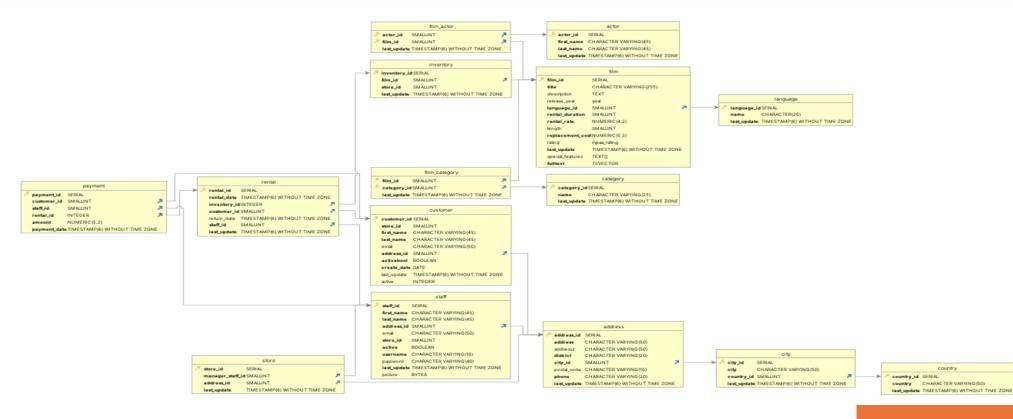
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Entity Relationship Diagram (ERD)

Fact tables

Payment

Key	Columns	Data type	Description	Links
Primary	payment_id	SERIAL	Unique identifier for the table and each payment.	
Foreign	customer_id	SMALLINT	Unique identifier for customer.	To rental To customer
Foreign	staff_id	SMALLINT	Unique identifier for staff member.	To staff
Foreign	rental_id	INTEGER	Unique identifier for each rental.	To rental
	amount	NUMERIC (5,2)	Price of film rental.	
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of film rental payment.	

Rental

Key	Columns	Data type	Description	Links
Primary	rental_id	SERIAL	Unique identifier for the table and each movie rental.	From payment
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of film rental.	
Foreign	inventory_id	INTEGER	Unique identifier for the inventory item.	To inventory
Foreign	customer_id	SMALLINT	Unique identifier for the customer..	To customer From payment
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of movie rental return.	
Foreign	staff_id	SMALLINT	Unique identifier for staff member.	To staff

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Dimension tables

Actor

Key	Columns	Data type	Description	Links
Primary	actor_id	SERIAL	Unique identifier for the film actor.	From film actor
	first_name	CHARACTER VARYING (45)	First name of film actor.	
	last_name	CHARACTER VARYING (45)	Last name of film actor.	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

Address

Key	Columns	Data type	Description	Links
Primary	address_id	SERIAL	Unique identifier of address.	From payment From rental From customer From staff From store
	address	CHARACTER VARYING (50)	First line of address	
	address2	CHARACTER VARYING (50)	Second line of address.	
	district	CHARACTER VARYING (20)	District in which address can be found.	
Foreign	city_id	SMALLINT	Unique identifier of city.	To city
	postal_code	CHARACTER VARYING (10)	Postal code of address.	
	phone	CHARACTER VARYING (20)	Phone number.	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

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Dimension tables

Category

Key	Columns	Data type	Description	Links
Primary	category_id	SERIAL	Unique identifier of category.	From film category
	name	CHARACTER VARYING (25)	Category in which film is listed.	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

City

Key	Columns	Data type	Description	Links
Primary	city_id	SERIAL	Unique identifier of city.	From address
	city	CHARACTER VARYING (50)	Name of city.	
Foreign	country_id	SMALLINT	Unique identifier of country.	To country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

Country

Key	Columns	Data type	Description	Links
Primary	country_id	SERIAL	Primary key, unique identifier of country.	From city
	Country	CHARACTER VARYING (50)	Name of country.	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

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Dimension tables

Customer

Key	Columns	Data type	Description	Links
Primary	customer_id	SERIAL	Unique identifier for the customer.	From payment From rental
	store_id	SMALLINT	Unique identifier for the store.	From 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.	
Foreign	address_id	SMALLINT	Unique identifier of customer address.	To address
	activebool	BOOLEAN	Whether or not the account is active.	
	create_date	DATE	Date on which customer account was created.	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	
	active	INTEGER	How long the account has been active or inactive for.	

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Dimension tables

Film

Key	Columns	Data type	Description	Links
Primary	film_id	SERIAL	Unique identifier for the film.	From film actor From film category From inventory
	title	CHARACTER VARYING (255)	Film title.	
	description	TEXT	Description of film.	
	release_year	Year	Year in which the film was released.	
Foreign	language_id	SMALLINT	Language in which film was released.	To language
	rental_duration	SMALLINT	Length of time for which the film was rented.	
	rental_rate	NUMERIC (4,2)	Price of film rental.	
	length	SMALLINT	Duration of film.	
	replacement_cost	NUMERIC (5,2)	How much it would cost to buy another copy of the film.	
	rating	mpaa_rating	Age rating of film.	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	
	special_features	TEXT[]	Special features available alongside the film.	
	fulltext	TSVECTOR	Text about film, available for search.	

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Film actor

Key	Columns	Data type	Description	Links
Candidate/ Foreign	actor_id	SMALLINT	Unique identifier for the film actor.	To actor
Candidate/ Foreign	film_id	SMALLINT	Unique identifier for the film.	To film From film category From inventory
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

Film category

Key	Columns	Data type	Description	Links
Candidate/ Foreign	film_id	SMALLINT	Unique identifier for the film.	To film To film actor From inventory
Candidate/ Foreign	category_id	SMALLINT	Unique identifier for the film category.	To category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

Inventory

Key	Columns	Data type	Description	Links
Primary	inventory_id	SERIAL	Unique identifier for inventory item.	From rental
Foreign	film_id	SMALLINT	Unique identifier for the film.	To film To film actor To film category
Foreign	store_id	SMALLINT	Unique identifier for the store.	From store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

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Dimension tables

Language

Key	Columns	Data type	Description	Links
Primary	language_id	SERIAL	Unique identifier of language in which film was released.	From film
	name	CHARACTER(20)	Name of language.	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

Staff

Key	Columns	Data type	Description	Links
Primary	staff_id	SERIAL	Unique identifier for staff member.	From store
	first_name	CHARACTER VARYING (45)	First name of staff member.	
	last_name	CHARACTER VARYING (45)	Last name of staff member.	
Foreign	address_id	SMALLINT	Unique identifier of customer address.	To address From store
	email	CHARACTER VARYING (50)	Email address of staff member.	
Foreign	store_id	SMALLINT	Unique identifier of store in which staff member works.	From store
	active	Boolean	Whether or not the staff member is actively in employment.	
	username	CHARACTER VARYING (16)	Staff member's computer terminal username.	
	password	CHARACTER VARYING (40)	Staff member's computer terminal password.	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	
	picture	BYTEA	Photo of staff member.	

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Dimension tables

Store

Key	Columns	Data type	Description	Links
Primary	store_id	SERIAL	Unique identifier of store.	To Staff To customer
	manager_staff_id	SMALLINT	Unique identifier of manager.	To staff
	address_id	SMALLINT	Unique identifier of address	To address
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last update to table.	

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