Rockbuster Stealth

Data Analysis Project

DATA DICTIONARY

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Entity Relationship Diagram (ERD)

table.actor

Key	Columns	Type Name	Description	Nulls	Links to	Links from
pk	actor_id	SERIAL	unique # assigned to an actor	NOT NULL		film_actor
	first_name	CHARACTER VARYING(45)	actor first name	NOT NULL		
	last_name	CHARACTER VARYING(45)	actor last name	NOT NULL		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.address

Key	Columns	Type Name	Description	Nulls	Links to	Links from
pk	address_id	SERIAL	unique # assigned to an address	NOT NULL		customer Store staff
	address	CHARACTER VARYING(50)	street address (eg 123 Elm St.)	NOT NULL		
	address2	CHARACTER VARYING(50)	secondary address info (eg Unit 2, Ste 53)	NULLABLE		
	district	CHARACTER VARYING(20)	state, province	NOT NULL		
fk	city_id	SMALLINT	unique # assigned to a city	NOT NULL	city	
	postal_code	CHARACTER VARYING(10)	zip code	NULLABLE		
	phone	CHARACTER VARYING(20)	phone number	NOT NULL		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.category

Key	Columns	Type Name	Description	Nulls	Links to	Links from
pk	category_id	SERIAL	unique # assigned to film genre/category	NOT NULL		film_category
	name	CHARACTER VARYING(25)	film genre/category	NOT NULL		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.city

Key	Columns	Type Name	Description	Nulls	Links to	Links from
Pk	city_id	SERIAL	unique # assigned to a city	NOT NULL		address
	city	CHARACTER VARYING(50)	city name	NOT NULL		
fk	country_id	SMALLINT	unique # assigned to a country	NOT NULL	country	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.country

Key	Columns	Type Name	Description	Nulls	Links to	Links from
pk	country_id	SERIAL	unique # assigned to a country	NOT NULL		city
	country	CHARACTER VARYING(50)	country name	NOT NULL		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.customer

Key	Columns	Type Name	Description	Nulls	Links to	Links from
Pk	customer_id	SERIAL	unique # assigned to a customer	NOT NULL		rental payment
	store_id	SMALLINT	unique # assigned to a store	NOT NULL		
	first_name	CHARACTER VARYING(45)	customer first name	NOT NULL		
	last_name	CHARACTER VARYING(45)	customer last name	NOT NULL		
	email	CHARACTER VARYING(50)	customer email	NULLABLE		
fk	address_id	SMALLINT	unique # assigned to an address	NOT NULL	address	
	activebool	BOOLEAN	true or false (a customer?)	NOT NULL		
	create_date	DATE	date record was created	NOT NULL		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NULLABLE		
	active	INTEGER	1 or 0 (active customer?)	NULLABLE		

table.film

Key	Columns	Type Name	Description	Nulls	Links to	Links from
pk	film_id	SERIAL	unique # assigned to a film	NOT NULL		film_actor film_category inventory
	title	CHARACTER VARYING(255)	title of film	NOT NULL		
	description	TEXT	description of film/logline	NULLABLE		
	release_year	YEAR	year film was released	NULLABLE		
fk	language_id	SMALLINT	unique # assigned to a language	NOT NULL	language	
	rental_duration	SMALLINT	how many days was the film rented for	NOT NULL		
	rental_rate	NUMERIC(4,2)	price per rental day	NOT NULL		
	length	SMALLINT	film run time (minutes)	NOT NULL		
	replacement_cost	NUMERIC(5,2)	cost of film; replace missing unit	NOT NULL		
	rating	MPAA_RATING	film rating	NULLABLE		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		
	special_features	TEXT[]	what kind of special features are available	NULLABLE		
	fulltext	TSVECTOR	description key words	NOT NULL		

table.film_actor

Key	Columns	Type Name	Description	Nulls	Links to	Links from
pk	actor_id	SMALLINT	unique # assigned to an actor	NOT NULL	actor	
fk	film_id	SMALLINT	unique # assigned to a film	NOT NULL	film	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.film_category

Key	Columns	Type Name	Description	Nulls	Links to	Links from
fk	film_id	SMALLINT	unique # assigned to a film	NOT NULL	film	
fk	category_id	SMALLINT	unique # assigned to film genre/category	NOT NULL	category	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.inventory

Key	Columns	Type Name	Description	Nulls	Links to	Links from
Pk	inventory_id	SERIAL	unique # assigned to specific unit in inventory	NOT NULL		rental
fk	film_id	SMALLINT	unique # assigned to a film	NOT NULL	film	
fk	store_id	SMALLINT	unique # assigned to a rental store	NOT NULL	store	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.language

Key	Columns	Type Name	Description	Nulls	Links to	Links from
pk	language_id	SERIAL	unique # assigned to a language	NOT NULL		film
	name	CHARACTER(20)	foreign language	NOT NULL		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.payment

Key	Columns	Type Name	Description	Nulls	Links to	Links from
Pk	payment_id	SERIAL	unique # assigned to payment transaction	NOT NULL		
Fk	customer_id	SMALLINT	unique # assigned to a customer	NOT NULL	customer	
Fk	staff_id	SMALLINT	unique # assigned to rental store employee	NOT NULL	staff	
Fk	rental_id	INTEGER	unique # assigned to rental event/transaction	NOT NULL	rental	
	amount	NUMERIC(5,2)	cost of rental	NOT NULL		
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.rental (factual/transaction)

Key	Columns	Type Name	Description	Nulls	Links to	Links from
Pk	rental_id	SERIAL	unique # assigned to rental event/transaction	NOT NULL		payment
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	date film was rented	NOT NULL		
Fk	inventory_id	INTEGER	unique # assigned to specific unit in inventory	NOT NULL	inventory	
Fk	customer_id	SMALLINT	unique # assigned to a customer	NOT NULL	customer	
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	date film was returned	NULLABLE		
Fk	staff_id	SMALLINT	unique # assigned to rental store employee	NOT NULL	staff	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		

table.staff

Key	Columns	Type Name	Description	Nulls	Links to	Links from
Pk	staff_id	SERIAL	unique # assigned to rental store employee	NOT NULL		store
	first_name	CHARACTER VARYING(45)	employee first name	NOT NULL		
	last_name	CHARACTER VARYING(45)	employee last name	NOT NULL		
fk	address_id	SMALLINT	unique # assigned to an address	NOT NULL	address	
	email	CHARACTER VARYING(50)	employee email	NULLABLE		
	store_id	SMALLINT	unique # assigned to rental store	NOT NULL		
	active	BOOLEAN	true or false (an employee?)	NOT NULL		
	username	CHARACTER VARYING(16)	employee username	NOT NULL		
	password	CHARACTER VARYING(40)	employee password	NULLABLE		
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		
	picture	BYTEA	unser (employee photo on file?)	NULLABLE		

table.store

Key	Columns	Type Name	Description	Nulls	Links to	Links from
Pk	store_id	SERIAL	unique # assigned to rental store	NOT NULL		inventory
	manager_staff_id	SMALLINT	unique # manager of rental store	NOT NULL		
fk	address_id	SMALLINT	unique # assigned to an address	NOT NULL	address	
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	time of last update to data	NOT NULL		