



Rockbuster Data Dictionary

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Entity Relationship Diagram (ERD)







Legend



	Primary Key
	Foreign Key

Fact Tables



Rental				
Key	Column	Data Type	Description	Links With
	rental_id	SERIAL	Number assigned to rental	Payment
	rental_date	TIMESTAMP(6) WITHOUT TIMEZONE	Date of rental	
	inventory_id	INTEGER	Number assigned to item	Inventory
	customer_id	SMALLINT	Number assigned to customer	Customer
	return_date	TIMESTAMP(6) WITHOUT TIMEZONE	Date rental was returned	Staff
	staff_id	SMALLINT	Number assigned to employee checking out customer	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	

Payment				
Key	Column	Data Type	Description	Links With
	payment_id	SERIAL	Number assigned to payment	
	customer_id	SMALLINT	Number assigned to customer	Customer
	staff_id	SMALLINT	Number assigned to employee checking out customer	Staff
	rental_id	INTEGER	Number assigned to rental	Rental
	amount	NUMERIC(5,2)	Amount paid	
	payment_date	TIMESTAMP(6) WITHOUT TIMEZONE	Date of payment	



Dimension Tables

Store				
Key	Column	Data Type	Description	Links With
	store_id	SERIAL	Number assigned to store	
	manager_staff_id	SMALLINT	Number assigned to store manager	
	address_id	SMALLINT	Number assigned to store address	Address
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	



Film_actor



Key	Column	Data Type	Description	Links With
	actor_id	SMALLINT	Number assigned to actor	Actor
	film_id	SMALLINT	Number assigned to film	Film
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	

Inventory



Key	Column	Data Type	Description	Links With
	inventory_id	SERIAL	Number assigned to item	Rental
	film_id	SMALLINT	Number assigned to film	Film
	store_id	SMALLINT	Number assigned to store	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	

Film_category


Key	Column	Data Type	Description	Links With
	film_id	SMALLINT	Number assigned to film	Film_actor Film
	category_id	SMALLINT	Number assigned to genre	Category
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	



Customer				
Key	Column	Data Type	Description	Links With
	customer_id	SERIAL	Number assigned to customer	Rental Payment
	store_id	SMALLINT	Number assigned to store	
	first_name	CHARACTERVARYING(45)	First name of customer	
	last_name	CHARACTERVARYING(45)	Last name of customer	
	email	CHARACTERVARYING(50)	E-mail address of customer	
	address_id	SMALLINT	Number assigned to customer's address	Address
	activebool	BOOLEAN	Is customer active?	
	create_date	DATE	Date entry was created	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	
	active	INTEGER	Is customer active?	


Staff

Key	Column	Data Type	Description	Links With
	staff_id	SERIAL	Number assigned to employee	Payment Store Rental
	first_name	CHARACTERVARYING(45)	First name of employee	
	last_name	CHARACTERVARYING(45)	Last name of employee	
	address_id	SMALLINT	Number assigned to employee's address	Address
	email	CHARACTERVARYING(50)	E-mail address of employee	
	store_id	SMALLINT	Number assigned to store	
	active	BOOLEAN	Is employee active?	
	username	CHARACTERVARYING(16)	Username of employee	
	password	CHARACTERVARYING(40)	Password of employee	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	
	picture	BYTEA	Picture of employee	



Actor

Key	Column	Data Type	Description	Links With
	actor_id	SERIAL	Number assigned to actor	Film_actor
	first_name	CHARACTERVARYING(45)	First name of actor	
	last_name	CHARACTERVARYING(45)	Last name of actor	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	


Film				
Key	Column	Data Type	Description	Links With
	film_id	SERIAL	Number assigned to film	Film_actor Inventory Film_category
	title	CHARACTERVARYING(255)	Title of film	
	description	TEXT	Description of film	
	release_year	year	Release year of film	
	language_id	SMALLINT	Number assigned to language of film	Language
	rental_duration	SMALLINT	Length of film rental	
	rental_rate	NUMERIC(4,2)	Price of film rental	
	length	SMALLINT	Length of film	
	replacement_cost	NUMERIC(5,2)	Cost to replace film	
	rating	mpaa_rating	Film rating	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	
	special_features	TEXT[]	Special features included with film	
	fulltext	TSVECTOR	Keywords associated with film	



Category				
Key	Column	Data Type	Description	Links With
	category_id	SERIAL	Number assigned to genre	Film_category
	name	CHARACTERVARYING(25)	Name of genre	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	


Address

Key	Column	Data Type	Description	Links With
	address_id	SERIAL	Number assigned to address	Customer Staff Store
	address	CHARACTERVARYING(50)	Street address	
	address2	CHARACTERVARYING(50)	Supplemental street address	
	district	CHARACTERVARYING(20)	District	
	city_id	SMALLINT	Number assigned to city	City
	postal_code	CHARACTERVARYING(10)	Postal code	
	phone	CHARACTERVARYING(20)	Phone number	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	

Language

Key	Column	Data Type	Description	Links With
	language_id	SERIAL	Number assigned to language	Film
	name	CHARACTER(20)	Name of language	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	

City				
Key	Column	Data Type	Description	Links With
	city_id	SERIAL	Number assigned to city	Address
	city	CHARACTERVARYING(50)	Name of city	
	country_id	SMALLINT	Number assigned to country	Country
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	

Country				
Key	Column	Data Type	Description	Links With
	country_id	SERIAL	Number assigned to country	City
	country	CHARACTERVARYING(50)	Name of country	
	last_update	TIMESTAMP(6) WITHOUT TIMEZONE	Date entry was last updated	