

Rockbuster Stealth LLC

Data Dictionary

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Glossary

Primary Key

The primary key is a column or set of columns that acts as a unique identifier for each record in a table. There can be only one primary key within a table and it has to meet the following criteria: 1. It has to be unique for each row. 2. It cannot be null for any record. 3. The values of the primary key can't be modified if it's linked to another table.

Foreign Key

A foreign key is a column, or set of columns, that refers to the primary key in another table. Foreign keys are used to establish relationships between tables and are helpful in navigating from one table to another.

Entity Relationship Diagram (ERD)

An entity relationship diagram (ERD) illustrates the links between the tables in a relational database.

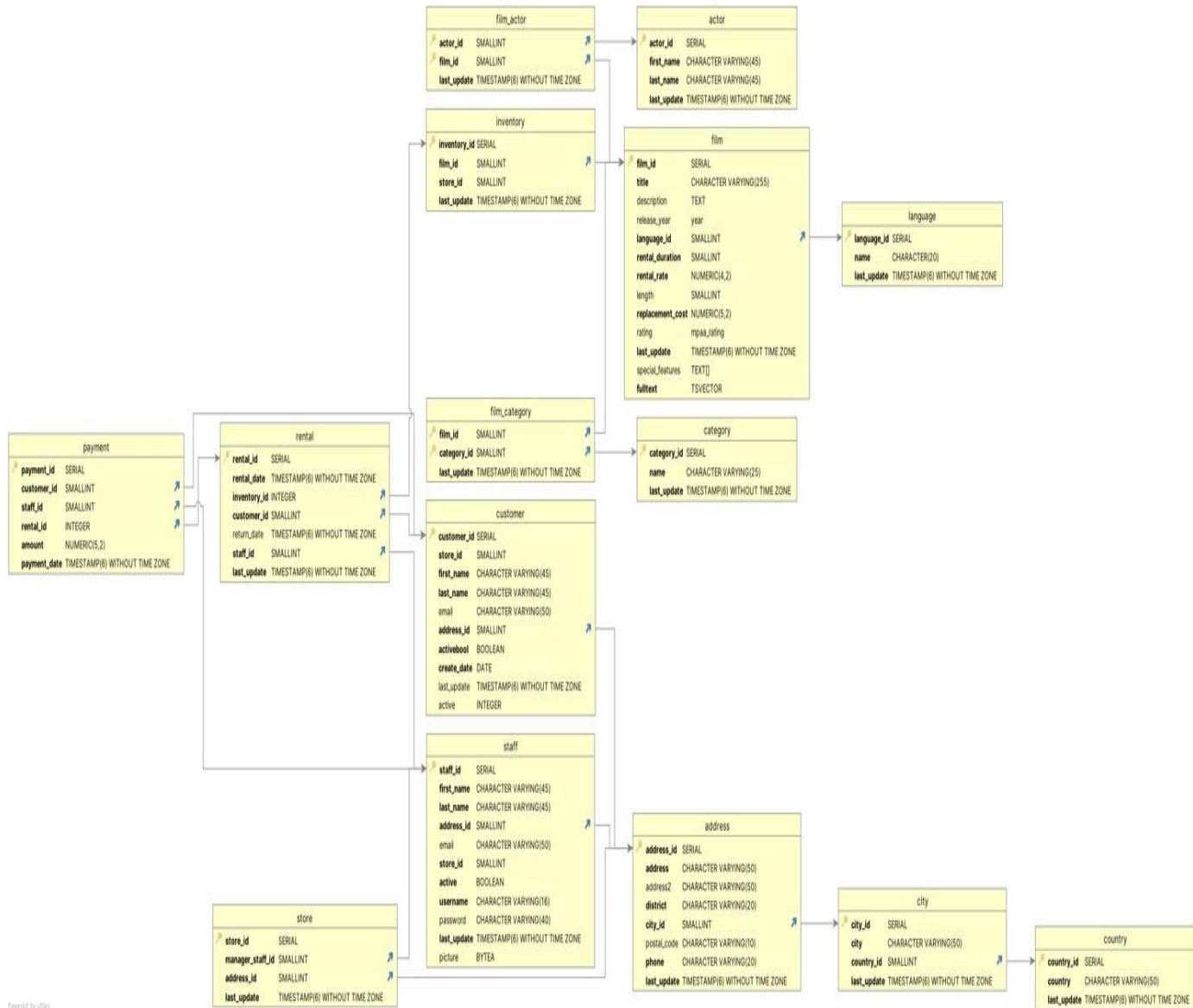
Fact Table

Store information about events. They typically have two columns: one with numerical values and one with foreign keys that link to dimension tables.









Dimension Table

Store information about the entities involved in fact table events.









Entity Relationship Diagram (ERD)







Fact Tables







Table name	Columns	Data Type	Description
Payment	payment_id 	SERIAL	Payment Identifier no
	customer_id 	SMALLINT	Customer Identifier no
	staff_id 	SMALLINT	Staff Identifier no
	rental_id 	INTEGER	Rental Identifier no
	amount	NUMERIC(5,2)	Amount of payment received
	payment_date	TIMESTAMP(6) WO TZ	Date when payment was made
Rental	rental_id 	SERIAL	Rental identifier no
	rental_date	TIMESTAMP(6) WO TZ	Date of rental
	inventory_id 	INTEGER	Inventory identifier no
	customer_id 	SMALLINT	Customer identifier no
	return-date	TIMESTAMP(6) WO TZ	Date when movie needs to be returned
	staff_id 	SMALLINT	staff identifier no
	last_update	TIMESTAMP(6) WO TZ	Time of last update



Dimensions Tables



Table name	Columns	Data Type	Description
Store	store_id 	SERIAL	Store Identifier no
	manager_staff_id 	SMALLINT	Manager Staff Identifier no
	address_id 	SMALLINT	Staff address identifier no
	last_update	TIMESTAMP(6) WO TZ	Time of last update
Film_actor	actor_id  	SMALLINT	Actor Identifier no
	film_id  	SMALLINT	Film Identifier no
	last_update	TIMESTAMP(6) WO TZ	Time of last update
Actor	actor_id 	SERIAL	Actor Identifier no
	first_name	CHARACTER VARYING(45)	First name of actor
	last_name	CHARACTER VARYING(45)	Last name of actor



	last_update	TIMESTAMP(6) WO TZ	Time of last update
Inventory	inventory_id 	SERIAL	Inventory Identifier no
	film_id 	SMALLINT	Film Identifier no
	store_id	SMALLINT	Store Identifier no
	last_update	TIMESTAMP(6) WO TZ	Time of last update
Film	film_id 	SERIAL	Film Identifier no
	title	CHARACTER VARYING(255)	Title of movie
	description	TEXT	Description of movie
	release_year	year	Movie release date




	language_id 	SMALLINT	Movie language
	rental_duration	SMALLINT	Duration of movie rental
	rental_rate	NUMERIC(4,2))	Cost to rent movie
	length	SMALLINT	Length of movie
	replacement_cost	NUMERIC(5,2))	Cost to replace movie if lost
	rating	mpaa_rating	Movie age rating
	last_update	TIMESTAMP(6) WO TZ	Time of last update
	special_features	TEXT[]	Movie special features
	fulltext	TSVECTOR	Movie index

Language	language_id 	SERIAL	Language of movie
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP(6) WO TZ	Time of last update
Film_category	film_id  	SMALLINT	Film Identifier no
	category_id  	SMALLINT	Category Identifier no
	last_update	TIMESTAMP(6) WO TZ	Time of last update
Category	category_id 	SERIAL	Category Identifier no
	name	CHARACTER VARYING(25)	Name of Category
	last_update	TIMESTAMP(6) WO TZ	Time of last update

Customer	customer_id 	SERIAL	Customer Identifier no
	store_id	SMALLINT	Store Identifier no
	first_name	CHARACTER VARYING(45)	First name of customer
	last_name	CHARACTER VARYING(45)	Last name of customer
	email	CHARACTER VARYING(50)	email of customer
	address_id 	SMALLINT	Customer address
	activebool	BOOLEAN	If customer is active
	create_date	DATE	Date customer was created
	last_update	TIMESTAMP(6) WO TZ	Time of last update

	active	INTEGER	If account is active
Staff	staff_id 	SERIAL	Staff Identifier no
	first_name	CHARACTER VARYING(45)	Staff first name
	last_name	CHARACTER VARYING(45)	Staff last name
	address_id 	SMALLINT	Staff address
	email	CHARACTER VARYING(50)	Staff email
	store_id	SMALLINT	Store Identifier no
	active	BOOLEAN	If staff is active
	username	CHARACTER VARYING(16)	Staff account username

	password	CHARACTER VARYING(40)	Staff account password
	last_update	TIMESTAMP(6) WO TZ	Time of last update
	picture	BYTEA	Staff photo
Address	address_id 	SERIAL	Address Identifier no
	address	CHARACTER VARYING(50)	Store address line 1
	address2	CHARACTER VARYING(50)	Store address line 2
	district	CHARACTER VARYING(20)	Store district
	city_id 	SMALLINT	Store city
	postal_code	CHARACTER VARYING(10)	Postal code of store address

	phone	CHARACTER VARYING(20)	Store phone number
	last_update	TIMESTAMP(6) WO TZ	Time of last update
City	city_id 	SERIAL	City Identifier no
	city	CHARACTER VARYING(50)	City name
	country_id 	SMALLINT	Country Identifier no
	last_update	TIMESTAMP(6) WO TZ	Time of last update
Country	country_id 	SERIAL	Country Identifier no
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP(6) WO TZ	Time of last update