



ROCKBUSTER

Data Dictionary



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Data Analytics Achievement 3

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Glossary:

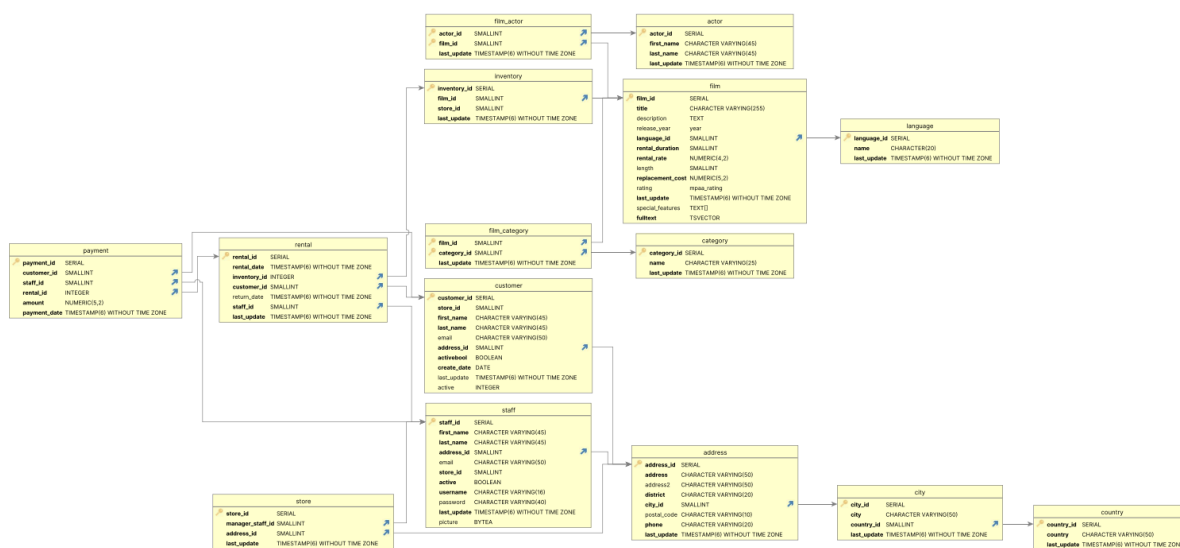
Primary Key Icon:



Foreign Key Icon:







Entity Relationship Diagram (ERD)



Click on the hyperlink to get the ERD in pdf format.

[Rockbuster ERD PDF](#)





Table: Payment

	Column	Data Type	Column Description
	Payment_id	SERIAL	Primary Key. Automatically assigned by Database to identify the transaction.
	Customer_id	SMALLINT	Foreign Key. ID assigned to customer who rented the movie(s)
	Staff_id	SMALLINT	Foreign Key. ID assigned to staff member who rang out the customer
	Rental_id	INTEGER	Foreign Key. ID assigned to movie's transaction during this sale
	Amount	NUMERIC(5,2)	Dollar amount for rental in USD
	Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time (without specifying time zone) when the sale took place

LINKS TO:

Table	Join
Staff	Payment.staff_id = staff.staff_id
Customer	Payment.customer_id = customer.customer_id
rental	Payment.rental_id = rental.rental_id Payment.customer_id = rental.customer_id

Table: Rental

	Column	Data Type	Column Description
	Rental_id	SERIAL	Primary Key. Number automatically assigned to rental to distinguish each time a single movie was rented.
	Rental-Date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time this movie was rented.
	Inventory_id	INTEGER	Foreign Key. Automatically generated in the inventory table when a new film first arrives at the store.
	Customer_ID	SMALLINT	Foreign Key. Automatically generated for every new customer in the customer table.
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	This is the date the movie was returned to the store.
	Staff_id	SMALLINT	Foreign Key. Unique idea identifying each individual staff member. Automatically generated in the staff table
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	This is the last time this rental table was updated.




LINKS TO:

Table	Join
customer	Rental.customer_id = customer.customer_id
staff	Rental.staff_id = staff.staff_id
inventory	Rental.inventory_id = inventory.inventory_id

LINKED FROM:

Table	Join
Payment	Rental.rental_id = payment. Rental_id



Table: Store

	Column	Data Type	Column Description
	Store_id	SERIAL	Primary Key. A surrogate key given to each additional store automatically by the database.
	Manager_staff_id	SMALLINT	Foreign Key. A number used to identify the manager in the data.
	Address_id	SMALLINT	Foreign Key. A number assigned to identify the correct address in the address table.
	Last_update	TIMESTAMP(S) WITHOUT TIME ZONE	Last time table was updated.

LINKS TO:

Table	Join
Staff	Store.manager_staff_id = staff.staff_id
Address	Store.address_id = address.address_id



Table: Film_actor

	Column	Data Type	Column Description
	Actor_id	SMALLINT	Foreign key. Generated automatically in the actor table. Used to identify the actor in a film.
	Film_id	SMALLINT	Foreign Key. Automatically generated in the film table. Used to identify individual films.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time the table was updated.

LINKS TO:

Table	Join
Actor	Film_actor.actor_id = actor.actor_id
Film	Film_actor.film_id = film.film_id

Table: Inventory

	Column	Data Type	Column Description
	Inventory_id	SERIAL	Primary Key. Automatically generated to identify each film in the inventory of each store.
	Film_id	SMALLINT	Foreign Key. Automatically generated in film table to identify each movie.
	Store_id	SMALLINT	Identifies the store the movie/inventory is at.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Shows date when inventory table was last updated.



LINKED FROM:

Table	Join
rental	Inventory.inventory_id = rental.inventory_id

LINKS TO:

Table	Join
film	Inventory.film_id = film.film_id



Table: Film_category

	Column	Data Type	Column Description
	Film_id	SMALLINT	Foreign Key. This is a number automatically generated in the film table. It is used to identify a movie.
	Category_id	SMALLINT	Foreign Key. Generated automatically in the category table. Connects this table to the type of film is being rented.
	Last_update	TIMSETAMP(6) WITHOUT TIME ZONE	Date showing when this table was last updated.

LINKS TO:

Table	Join
category	Film_category.category_id = category.category_id
film	Film_category.film_id = film.film_id

Table: Customer

	Column	Data Type	Column Description
	Customer_id	SERIAL	Surrogate ID. Number automatically generated by SQL to identify each customer
	Store_id	SMALLINT	Numeric ID identifying which store customer uses
	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	Foreign Key. Number identifying address of customer in Address table.
	Activebool	BOOLEAN	Tells us true or false whether or not that customer is still actively renting videos.
	Create_date	DATE	States the day this customer's account was created. All these dates are the same, meaning they all had accounts prior to this system being used and they were all entered at once.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date these accounts were last updated.
	Active	INTEGER	Displays 0 or 1 depending if customer is still active.



LINKED FROM:

Table	Join
Payment	Customer.customer_id = payment.customer_id
rental	Customer.customer_id = rental.customer_id

LINKS TO:

Table	Join
address	Customer.address_id = address.address_id

Table: Staff

	Column	Data Type	Column Description
	Staff_id	SERIAL	Primary Key. Unique id automatically generated for each new staff member.
	First_name	CHARACTER VARYING(45)	First name of staff.
	Last_name	CHARACTER VARYING(45)	Last name of staff.
	Address_id	SMALLINT	Foreign Key. Identifies address of staff in address table.
	Email	CHARACTER VARYING(50)	Email of staff.
	Store_id	SMALLINT	Identifies which store staff works at.
	Active	BOOLEAN	True or false on whether staff is still actively working here.
	Username	CHARACTER VARYING(16)	Username of staff.
	Password	CHARACTER VARYING(40)	Staff's password.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When these records were last updated.
	Picture	BYTEA	Picture of staff.


LINKED FROM:

Table	Join
payment	Staff.staff_id = payment.staff_id
rental	Staff.staff_id = rental.staff_id
store	Staff.staff_id = store.manager_staff_id

LINKS TO:

Table	Join
address	Staff.address_id = address.address_id



Table: Actor

	Column	Data Type	Column Description
	Actor_id	SERIAL	Primary Key. Unique number automatically generated by SQL and assigned to each 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	Date table was last updated.

LINKED FROM:

Table	Join
Film_actor	Actor.actor_id = film_actor.actor_id

Table: Film

	Column	Data Type	Column Description
	Film_id	SERIAL	Primary Key. Automatically generated by SQL and assigned to new movies coming into the store.
	Title	CHARACTER VARYING(255)	Title of the movie.
	Description	TEXT	Description of the movie.
	Release_year	Year	Year that the movie came out.
	Language_id	SMALLINT	Foreign Key. Identifies language of movie in language table.
	Rental_duration	SMALLINT	How many days a customer can rent the movie per rental.
	Rental_rate	NUMERIC(4,2)	How much it costs to rent the movie in dollars.
	Length	SMALLINT	How long the movie runs in minutes.
	Replacement_cost	NUMERIC(5,2)	How much it costs to replace this movie if it goes missing in dollars.
	Rating	Mpaa_rating	The rating that shows how old you have to be to watch the film (ex: PG-13, R, etc.)
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date the table was last updated.
	Special_features	TEXT[]	What is included in the movie, not including the movie itself. Ex: trailers, commentary, behind the scenes, etc.
	Fulltext	TSVECTOR	List of key words to categorize movies by what they're about. Useful for searching for movies of interest.


LINKED FROM:

Table	Join
Film_actor	Film.film_id = film_actor.film_id
inventory	Film.film_id = inventory.film_id
Film_category	Film.film_id = film_category.film_id

LINKS TO:

Table	Join
language	Film.language_id = language.language_id



Table: Category

	Column	Data Type	Column Description
	Category_id	SERIAL	Primary key. Automatically generated by SQL to identify the category in other tables.
	Name	CHARACTER VARYING(25)	Name of the category.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of when the table was last updated.

LINKED FROM:

Table	Join
Film_category	Category.category_id = film_category.category_id

Table: Address

	Column	Data Type	Column Description
	Address_id	SERIAL	Primary Key. Automatically generated by SQL to identify the correct address in the table.
	Address	CHARACTER VARYING(50)	Address of customer or staff.
	Address2	CHARACTER VARYING(50)	Second address of customer or staff. (usually null)
	District	CHARACTER VARYING(20)	District where customer/staff lives.
	City_id	SMALLINT	Foreign Key. Automatically generated in City table. Identifies the correct city in City table.
	Postal_code	CHARACTER VARYING(10)	Postal code of customer/staff.
	Phone	CHARACTER VARYING(20)	Phone number of customer/staff.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of last time this table was upgraded.


LINKED FROM:

Table	Join
customer	Address.address_id = customer.address_id
Staff	Address.address_id = staff.address_id
Store	Address.address_id = store.address_id

LINKS TO:

Table	Join
City	Address.city_id = city.city_id



Table: Language

	Column	Data Type	Column Description
	Language_id	SERIAL	Primary Key. Automatically generated in list of languages.
	Name	CHARACTER(20)	Name of the language.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date when table was last updated.

LINKED FROM:

Table	Join
Film	Language.language_id = film.language_id

Table: City

	Column	Data Type	Column Description
	City_id	SERIAL	Primary Key. Automatically generated in list of cities to identify them in other tables.
	City	CHARACTER VARYING(50)	Name of the city.
	Country_id	SMALLINT	Foreign Key. Number revealing the country in the country table.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date the City table was last updated.


LINKED FROM:

Table	Join
Address	City.city_id = address.city_id

LINKS TO:

Table	Join
Country	City.country_id = country.country_id

Table: Country

	Column	Data Type	Column Description
	Country_id	SERIAL	Primary Key. Number automatically generated to identify the country in this and other tables.
	Country	CHARACTER VARYING(50)	Name of the country.
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When this table was last updated.

LINKED FROM:

Table	Join
city	Country.country_id = city.country_id