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ROCKBUSTER DATA DICTIONARY

LYNNSEY DOHMEN
LYNNSEY.LD@ICLOUD.COM

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1. ENTITY RELATIONSHIP DIAGRAM



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2. FACT TABLES

LEGEND

🔑 = primary key

🔑 = unique key

2.1 PAYMENT TABLE

Columns

	Name	Data Type	Description
🔑	payment_id	SERIAL	A unique id number for each transaction
🔑	customer_id	SMALLINT	A number to identify each customer
🔑	staff_id	SMALLINT	A number identifying the staff member that took payment
🔑	rental_id	INTEGER	A number that identifies which unique, individual movie that was rented
	amount	NUMERIC(5,2)	The cost of the rental
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	When the rental was paid for

Links to

Table	Join	Description
customer	payment.customer_id = customer.customer_id	FK restraint referencing customer.customer_id
staff	payment.staff_id = staff.staff_id	FK restraint referencing staff.staff_id
rental	payment.rental_id = rental.rental_id	FK restraint referencing rental.rental_id

Links from none

Unique Keys

	Column	Description
🔑	payment_id	Primary key
🔑	customer_id	Foreign key
🔑	staff_id	Foreign key
🔑	rental_id	Foreign key

2.2 RENTAL TABLE

Columns

	Name	Data Type	Description
🔑	rental_id	SERIAL	A unique identifier for each rental
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date the movie was rented
🔑	inventory_id	INTEGER	A unique number to identify the movie's spot in the inventory
🔑	customer_id	SMALLINT	A number to identify each customer
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date the movie was returned
🔑	staff_id	SMALLINT	A number identifying the staff member that took payment
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated

Links to

Table	Join	Description
customer	rental.customer_id = customer.customer_id	FK restraint referencing customer.customer_id
inventory	rental.inventory_id = inventory.inventory_id	FK restraint referencing inventory.inventory_id
staff	rental.staff_id = staff.staff_id	FK restraint referencing staff.staff_id

Links from

Table	Join	Description
payment	rental.rental_id = payment.rental_id	FK restraint referencing payment.rental_id

Unique Keys

	Column	Description
🔑	rental_id	Primary key
🔑	inventory_id	Foreign key
🔑	customer_id	Foreign key
🔑	staff_id	Foreign key

3. DIMENSION TABLES

LEGEND

🔑 = primary key
🔑 = unique key

3.1 ACTOR TABLE

Columns

	Name	Data Type	Description
🔑	actor_id	SERIAL	A unique number identifying each actor
	first_name	CHARACTER VARYING(45)	The first name of the actor
	last_name	CHARACTER VARYING(45)	The last name of the actor
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated

Links to none

Links from



Table	Join	Description
film_actor	actor.actor_id = film_actor.actor_id	PK restraint referencing film_actor.actor_id

Unique Keys

	Column	Description
🔑	actor_id	Primary key

3.2 ADDRESS TABLE

Columns

	Name	Data Type	Description
	address_id	SERIAL	A unique number identifying the address
	address	CHARACTER VARYING(50)	Street number and name
	address2	CHARACTER VARYING(50)	Extra address information like apt., building, etc.
	district	CHARACTER VARYING(20)	District the address is in
	city_id	SMALLINT	A unique number identifying the city
	postal_code	CHARACTER VARYING(10)	Postal code of address
	phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated



Links to

Table	Join	Description
city	address.city_id = city.city_id	FK restraint referencing city.city_id

Links from


Table	Join	Description
customer	address.address_id = customer.address_id	PK restraint referencing address.address_id
staff	address.address_id = staff.address_id	PK restraint referencing address.address_id
store	address.address_id = store.address_id	PK restraint referencing address.address_id

Unique Keys

	Column	Description
	address_id	Primary key
	city_id	Foreign key

3.3 CATEGORY TABLE

Columns

	Name	Data Type	Description
	category_id	SERIAL	A unique number identifying each category type
	name	CHARACTER VARYING(25)	Category name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated

Links to no tables

Links from



Table	Join	Description
film_category	category.category_id = film_category.category_id	PK restraint referencing category.category_id

Unique Keys

	Column	Description
	category_id	Primary key

3.4 CITY TABLE

Columns

	Name	Data Type	Description
	city_id	SERIAL	A unique number identifying the city
	city	CHARACTER VARYING(50)	Name of the city
	country_id	SMALLINT	A unique number identifying the country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated



Links to

Table	Join	Description
country	city.country_id = country.country_id	FK restraint referencing country.country_id

Links from


Table	Join	Description
address	city.city_id = address.city_id	PK restraint referencing address.city_id

Unique Keys

	Column	Description
	city_id	Primary key
	country_id	Foreign key

3.5 COUNTRY TABLE

Columns

	Name	Data Type	Description
	country_id	SERIAL	A unique number identifying the country
	country	CHARACTER VARYING(50)	Name of the city
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated

Links to none

Links from

Table	Join	Description
city	country.country_id = city.city_id	PK restraint referencing city.city_id

Unique Keys

	Column	Description
🔑	country_id	Primary key

3.6 CUSTOMER TABLE

Columns

	Name	Data Type	Description
🔑	customer_id	SERIAL	A number to identify each customer
	store_id	SMALLINT	A unique number identifying the store the movie was rented at
	first_name	CHARACTER VARYING(45)	First name of the customer
	last_name	CHARACTER VARYING(45)	Last name of the customer
	email	CHARACTER VARYING(45)	The customer's email address
🔑	address_id	SMALLINT	A unique number identifying the customer's address
	activebool	BOOLEAN	Whether the customer is active or not
	create_date	DATE	The date the customer was entered into the table
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated
	active	INTEGER	Whether the customer is active or not

Links to

Table	Join	Description
address	customer.address_id = address.address_id	FK restraint referencing address.address_id

Links from

Table	Join	Description
payment	customer.customer_id = payment.customer_id	PK restraint referencing payment.customer_id
rental	customer.customer_id = rental.customer_id	PK restraint referencing rental.customer_id

Unique Keys

	Column	Description
🔑	customer_id	Primary key
🔑	address_id	Foreign key

3.7 FILM TABLE

Columns

	Name	Data Type	Description
🔑	film_id	SERIAL	A unique number identifying each movie
	title	CHARACTER VARYING(255)	The title of the movie
	description	TEXT	A description of the movie
	release_year	year	The year the movie came out
🔑	language_id	SMALLINT	A unique number identifying what language the movie is in
	rental_duration	SMALLINT	Length of time movie was rented
	rental_rate	NUMERIC(4,2)	How many times the movie has been rented
	length	SMALLINT	How long the movie is
	replacement_cost	NUMERIC(5,2)	How much the movie costs to replace
	rating	mpaa_rating	The movie's maturity rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated
	special_features	TEXT[]	What special features come with movie
	fulltext	TSVECTOR	movie's descriptive word list

Links to

Table	Join	Description
language	film.language_id = language.language_id	FK restraint referencing language.language_id

Links from



Table	Join	Description
film_actor	film.film_id = film_actor.film_id	FK restraint referencing film_actor.film_id
film_category	film.film_id = film_category.film_id	FK restraint referencing film_category.film_id
inventory	film.film_id = inventory.film_id	FK restraint referencing inventory.film_id

Unique Keys

	Column	Description
🔑	film_id	Primary key
🔑	language_id	Foreign key

3.8 FILM_ACTOR TABLE

Columns



	Name	Data Type	Description
	actor_id	SMALLINT	A unique number identifying each actor
	film_id	SMALLINT	A unique number identifying each movie
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated

Links to

Table	Join	Description
actor	film_actor.actor_id = actor.actor_id	FK restraint referencing actor.actor_id
film	film_actor.film_id = film.film_id	FK restraint referencing film.film_id



Links from none

Unique Keys

	Column	Description
	actor_id	Primary key or foreign key
	film_id	Foreign key or primary key

3.9 FILM_CATEGORY TABLE

Columns



	Name	Data Type	Description
	film_id	SMALLINT	A unique number identifying each movie
	category_id	SMALLINT	A unique number identifying each category type
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated

Links to

Table	Join	Description
category	film_category.category_id = category.category_id	FK restraint referencing category.category_id
film	film_category.film = film.film_id	FK restraint referencing film.film_id

Links from none

Unique Keys

	Column	Description
	film_id	Primary key or foreign key
	category_id	Foreign key or primary key

3.10 INVENTORY TABLE

Columns

	Name	Data Type	Description
🔑	inventory_id	SERIAL	A unique number to identify the movie's spot in the inventory
🔑	film_id	SMALLINT	A unique number identifying each movie
	store_id	SMALLINT	A unique number identifying which store the movie was rented at
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the date was last updated

Links to

Table	Join	Description
film	inventory.film_id = film.film_id	FK restraint referencing film.film_id

Links from

Table	Join	Description
rental	inventory.inventory_id = rental.inventory_id	FK restraint referencing rental.inventory_id

Unique Keys

	Column	Description
🔑	inventory_id	Primary key
🔑	film_id	Foreign key

3.11 LANGUAGE TABLE

Columns

	Name	Data Type	Description
🔑	language_id	SERIAL	A unique number identifying what language the movie is in
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated

Links to none

Links from

Table	Join	Description
film	language.language_id = film.language_id	FK restraint referencing film.language_id

Unique Keys

	Column	Description
🔑	language_id	Primary key

3.12 STAFF TABLE

Columns

	Name	Data Type	Description
🔑	staff_id	SERIAL	A number identifying the staff member that took payment
	first_name	CHARACTER VARYING(45)	First name of the staff member
	last_name	CHARACTER VARYING(45)	Last name of the staff member
🔑	address_id	SMALLINT	A unique number identifying the staff member's address
	email	CHARACTER VARYING(50)	The email of the staff member
	store_id	SMALLINT	A unique number identifying which store the staff member works at
	active	BOOLEAN	Is it a current staff member or not
	username	CHARACTER VARYING(16)	The staff member's username
	password	CHARACTER VARYING(40)	The staff member's password
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated
	picture	BYTEA	A photo of the employee

Links to

Table	Join	Description
address	staff.address_id = address.address_id	FK restraint referencing address.address_id

Links from

Table	Join	Description
payment	staff.staff_id = payment.staff_id	FK restraint referencing payment.staff_id
rental	staff.staff_id = rental.staff_id	FK restraint referencing rental.staff_id
store	staff.staff_id = store.manager_staff_id	FK restraint referencing store.manager_staff_id

Unique Keys

	Column	Description
🔑	staff_id	Primary key
🔑	address_id	Foreign key

3.13 STORE

Columns




	Name	Data Type	Description
🔑	store_id	SERIAL	A unique number identifying the store
🔑	manager_staff_id	SMALLINT	A unique number identifying the manager
🔑	address_id	SMALLINT	A unique number identifying the address of the store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	When the data was last updated

Links to

Table	Join	Description
address	store.address_id = address.address_id	FK restraint referencing address.address_id
staff	store.manager_staff_id = staff.staff_id	FK restraint referencing staff.staff_id

Links from none

Unique Keys

	Column	Description
	store_id	Primary key
	manager_staff_id	Foreign key
	address_id	Foreign key
