

ROCKBUSTER

DATA DICTIONARY

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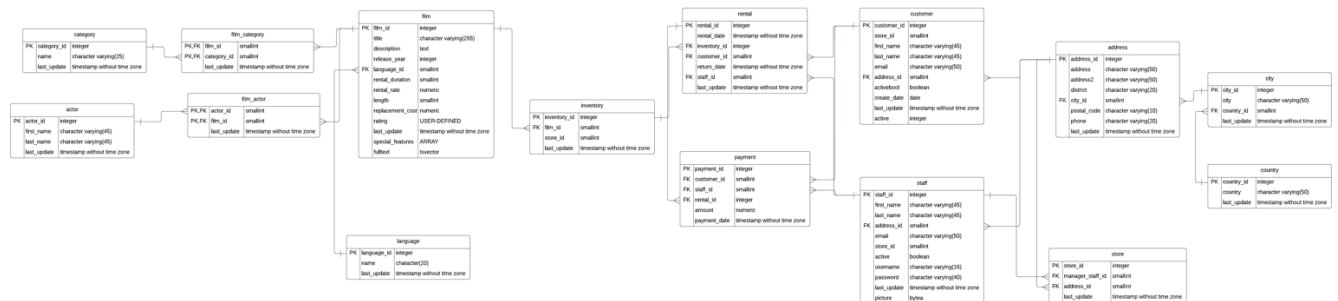
CAREERFOUNDRY Data Immersion

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Rockbuster ERD



Fact Tables:

Rental

Information for each rental event.

Columns	Data Type	Description
rental_id	Integer	Primary key, unique ID for each rental.
rental_date	Timestamp without time zone	Date/time rental event took place.
Inventory_id	Integer	Foreign key, unique ID for each piece of inventory
Customer_id	smallint	Foreign key, unique Id for each customer
Return_date	Timestamp without time zone	Date/time rental is due back.

Staff_id	smallint	Foreign key, unique ID for each staff member
last_update	timestamp without time zone	Date/time entry last updated

Links to

Table	Join	Title/Name/Description
payment	rental.rental_id = payment.rental_id	FK payment.rental_id Foreign key constraint referencing payment.rental_id

Links from

Table	Join	Title/Name/Description
inventory	rental.inventory_id = inventory.inventory_id	FK rental.inventory_id Foreign key constraint referencing inventory.inventory_id
customer	rental.customer_id = customer.customer_id	FK rental.customer_id Foreign key constraint referencing customer.customer_id
staff	rental.staff_id = staff.staff_id	FK rental.staff_id Foreign key constraint referencing staff.staff_id

Unique keys

Columns	Name/Description
rental_id	PK rental_id – Primary Key

Payment

Information for each payment event.

Columns	Data Type	Description
payment_id	integer	Primary key, unique ID for each payment event
customer_id	smallint	foreign key, unique ID for each customer
staff_id	smallint	foreign key, unique ID for each staffmember
rental_id	integer	foreign key, unique ID fore each rental event
amount	numeric	price of particular payment event.
payment_date	timestamp without time zone	Date/time that payment took place

Links from

Table	Join	Title/Name/Description
customer	payment.customer_id = customer.customer_id	FK payment.customer_id Foreign key constraint referencing customer.customer_id
rental	payment.rental_id = rental.rental_id	FK payment.rental_id Foreign key constraint referencing rental.rental_id

staff	payment.staff_id = staff.staff_id	FK payment.staff_id Foreign key constraint referencing staff.staff_id
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Unique keys

Columns	Name/Description
payment_id	PK payment.id – Primary Key

Dimension Tables:

Category

Links Category_id with category name.

Columns	Data Type	Description
category_id	integer	Primary key, unique ID for each film category
name	character varying (25)	name of category
last_update	timestamp without time zone	Date/time of last update

Links to

Table	Join	Title/Name/Description
film_category	category.category_id = film_category.category_id	FK film_category.category_id Foreign key constraint referencing category.category_id

Unique keys

Columns	Name/Description
category_id	PK category_id – Primary Key

Film_category

Links category and film tables.

Columns	Data Type	Description
film_id	smallint	PK and FK, this table links film and category tables
category_id	smallint	PK and FK, this table links film and category tables
last_update	timestamp without time zone	Date/time of last update

Links from

Table	Join	Title/Name/Description
category	film_category.category_id = category.category_id	PK/FK film_category.category_id Foreign key constraint referencing category.category_id

film	film_category.film_id = film.film_id	PK/FK film_category.film_id Foreign key constraint referencing film.film_id
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Unique keys

Columns	Name/Description
category	PK/FK category_id – Primary/Foreign Key
film	PK/FK film_id – Primary/Foreign Key

Actor

Links actor_id with actor names.

Columns	Data Type	Description
actor_id	integer	Primary key, unique ID for each actor
first_name	character varying (45)	Actor's first name
last_name	character varying (45)	Actor's last name
last_update	timestamp without time zone	Date/time of last update

Links to

Table	Join	Title/Name/Description
film_actor	actor.actor_id = film_actor.actor_id	FK film_actor.actor_id Foreign key constraint referencing actor.actor_id

Unique keys

Columns	Name/Description
actor_id	PK actor_id – Primary Key

Film_actor

Links actor and film tables.

Columns	Data Type	Description
actor_id	smallint	PK and FK, this table links film and actor tables
film_id	smallint	PK and FK, this table links film and actor tables
last_update	timestamp without time zone	Date/time of last update

Links from

Table	Join	Title/Name/Description
actor	film_actor.actor_id = actor.actor_id	PK/FK film_actor.actor_id Foreign key constraint referencing actor.actor_id
film	film_actor.film_id = film.film_id	PK/FK film_actor.film_id

		Foreign key constraint referencing film.film_id
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Unique keys

Columns	Name/Description
actor	PK/FK actor_id – Primary/Foreign Key
film	PK/FK film_id – Primary/Foreign Key

Film

Contains information about each film in Rockbuster catalog.

Columns	Data Type	Description
film_id	integer	Primary key, unique for each film
title	character varying (255)	The title of the film
description	text	Description of the film
release_year	integer	Year film was released
language_id	smallint	Foreign key, unique ID for each language
rental_duration	smallint	length of rental (allowed I'm assuming)
rental_rate	numeric	Price for rental for days listed in rental_duration.
length	smallint	length of movie, probably in minutes
replacement_cost	numeric	cost to replace this film
rating	USER-DEFINED	MPAA rating (G thru NC-17)
last_update	timestamp w/o time zone	Date/time of last update
special_features	ARRAY	special features accompanying the film. Bloopers, deleted scenes, etc.
full_text	tsvector	lists keywords associated with the film and its contents

Links to

Table	Join	Title/Name/Description
film_category	film.film_id = film_category.film_id	FK film_category.film_id Foreign key constraint referencing film.film_id
film_actor	film.film_id = film_actor.film_id	FK film_actor.film_id Foreign key constraint referencing film.film_id
inventory	film.film_id = inventory.film_id	FK inventory.film_id Foreign key constraint referencing film.film_id

Links from

Table	Join	Title/Name/Description
language	film.language_id = language.language_id	FK film.language_id Foreign key constraint referencing language.language_id

Unique keys

Columns	Name/Description
film_id	PK film_id – Primary Key

Language

Links language_id to language name.

Columns	Data Type	Description
language_id	integer	Primary key, unique ID for each language
name	character(20)	Name of language
last_update	timestamp without time zone	Date/time of last update

Links to

Table	Join	Title/Name/Description
film	language.language_id = film.language_id	FK film.language_id Foreign key constraint referencing language.language_id

Unique keys

Columns	Name/Description
language_id	PK language_id – Primary Key

Inventory

Contains information on each piece on inventory in Rockbuster catalog.

Columns	Data Type	Description
inventory_id	integer	Primary key, unique ID for each piece of inventory
film_id	smallint	Foreign key, unique ID for each film
store_id	smallint	Unique ID for each store/location
last_update	timestamp without time zone	Date/time of last update

Links to

Table	Join	Title/Name/Description
rental	inventory.inventory_id = rental.inventory_id	FK rental.inventory_id Foreign key constraint referencing payment.rental_id

Links from

Table	Join	Title/Name/Description
film	inventory.film_id = film.film_id	FK inventory.film_id Foreign key constraint referencing film.film_id

Unique keys

Columns	Name/Description
inventory_id	PK inventory_id – Primary Key

Customer

Contains information about Rockbuster customers.

Columns	Data Type	Description
customer_id	integer	Primary key, unique ID for each customer
store_id	small_int	Unique ID for each store/location
first_name	character varying (45)	customer's first name
last_name	character varying (45)	customer's last name
email	character varying (50)	customer's email
address_id	smallint	Foreign key, unique ID for each address
activebool	Boolean	Is the customer active? Y/N
create_date	date	date customer account was created
last_update	timestamp without time zone	Date/time of last update
active	integer	Assuming it's how many rentals this customer has are active. Looked up the table and it's mostly 1's with some 0's but the zero's aren't collocated with "activebool" falses.

Links to

Table	Join	Title/Name/Description
rental	customer.customer_id = rental.customer_id	FK rental.customer_id Foreign key constraint referencing customer.customer_id
payment	customer.customer_id = payment.customer_id	FK payment.customer_id Foreign key constraint referencing customer.customer_id

Links from

Table	Join	Title/Name/Description
address	customer.address_id = address.address_id	FK customer.address_id Foreign key constraint referencing address.address_id

Unique keys

Columns	Name/Description
customer_id	PK customer_id – Primary Key

Staff

Contains information on Rockbuster staff.

Columns	Data Type	Description
staff_id	integer	Primary key, unique ID for each staff member

first_name	character varying (45)	staff member's first name
last_name	character varying (45)	staff member's last name
address_id	smallint	Foreign key, unique ID for each address
email	character varying (50)	staff member's email
store_id	smallint	Unique ID for each store/location
active	Boolean	is this staff member active? Y/N
username	character varying (16)	staff member's username
password	character varying (40)	staff member's password
last_update	timestamp without time zone	Date/time of last update
picture	bytea	photo of staff member – so there's only two employees, one has [binary data] in this slot, the other has [null]

Links to

Table	Join	Title/Name/Description
rental	staff.staff_id = rental.staff_id	FK rental.staff_id Foreign key constraint referencing staff.staff_id
payment	staff.staff_id = payment.staff_id	FK payment.staff_id Foreign key constraint referencing staff.staff_id

Links from

Table	Join	Title/Name/Description
address	staff.address_id = address.address_id	FK staff.address_id Foreign key constraint referencing address.address_id

Unique keys

Columns	Name/Description
staff_id	PK staff_id – Primary Key

Address

Contains address information, to be linked with customers, staff and stores.

Columns	Data Type	Description
address_id	integer	Primary key, unique ID for each address
address	character varying (50)	Line one of physical address
address2	character varying (50)	Line two of physical address
district	character varying (20)	State or province, likely
city_id	smallint	foreign key, unique ID for each city
postal_code	character varying (10)	address's postal code
phone	character varying (20)	phone number associated with address
last_update	timestamp without time zone	Date/time of last update

Links to

Table	Join	Title/Name/Description
customer	address.address_id = customer.address_id	FK customer.address_id Foreign key constraint referencing address.address_id
staff	address.address_id = staff.address_id	FK staff.address_id Foreign key constraint referencing address.address_id
store	address.address_id = store.address_id	FK store.address_id Foreign key constraint referencing address.address_id

Links from

Table	Join	Title/Name/Description
city	address.city_id = city.city_id	FK address.city_id Foreign key constraint referencing city.city_id

Unique keys

Columns	Name/Description
address_id	PK address_id – Primary Key

Store

Information pertaining to a given Rockbuster location.

Columns	Data Type	Description
store_id	integer	Primary key, unique ID for each store
manager_staff_id	smallint	Foreign key, staff_id of branch/store manager
address_id	smallint	Foreign key, unique ID for each address
last_update	timestamp without time zone	Date/time of last update

Links from

Table	Join	Title/Name/Description
address	store.address_id = address.address_id	FK address.city_id Foreign key constraint referencing city.city_id
staff	store.manager_staff_id = staff.staff_id	FK store.manager_staff_id Foreign key referencing staff.staff_id of given store's manager.

Unique keys

Columns	Name/Description
store_id	PK store_id – Primary Key

City

Links the city_id to a given city.

Columns	Data Type	Description
city_id	integer	Primary key, unique ID for each city
city	character varying (50)	name of city
country_id	smallint	Foreign key, unique ID for each country
last_update	timestamp without time zone	Date/time of last update

Links to

Table	Join	Title/Name/Description
address	city.city_id = address.city_id	FK address.city_id Foreign key constraint referencing city.city_id

Links from

Table	Join	Title/Name/Description
country	city.country_id = country.country_id	FK city.country_id Foreign key constraint referencing country.country_id

Unique keys

Columns	Name/Description
city_id	PK city_id – Primary Key

Country

Links country_id with a given country.

Columns	Data Type	Description
country_id	integer	Primary key, unique ID for each country
country	character varying (50)	name of country
last_update	timestamp without time zone	Date/time of last update

Links to

Table	Join	Title/Name/Description
city	country.country_id = city.country_id	FK city.country_id Foreign key constraint referencing country.country_id

Unique keys

Columns	Name/Description
country_id	PK country_id – Primary Key