



KACEE UNRUH 8/17/2023

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ERD



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Fact Tables

Rental

Columns	Data Type	Description
rental_id	SERIAL	Primary key: unique identifier for rental records
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental
inventory_id	INTEGER	Foreign key: connects to the inventory's table primary key
customer_id	SMALLINT	Foreign key: connects to the customer's table primary key
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when rental was returned
staff_id	SMALLINT	Foreign key: connects to the staff's table primary key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Payment

Columns	Data Type	Description
payment_id	SERIAL	Primary key: unique identifier for payment records
customer_id	SMALLINT	Foreign key: connects to the customer's table primary key
staff_id	SMALLINT	Foreign key: connects to the staff's table primary key
rental_id	INTEGER	Foreign key: connects to the rental's table primary key
amount	NUMERIC(5,2)	Amount paid (numbers)
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of when payment was made

Dimension Tables

Film_actor

Columns	Data Type	Description
actor_id	SMALLINT	Foreign key: connects to the actor's table primary key
film_id	SMALLINT	Foreign key: connects to the film's table primary key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Inventory

Columns	Data Type	Description
inventory_id	SERIAL	Primary key: unique identifier for inventory records
film_id	SMALLINT	Foreign key: connects to the film's table primary key
store_id	SMALLINT	Unique store identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Film_category

Columns	Data Type	Description
film_id	SMALLINT	Foreign key: connects to the film's table primary key
category_id	SMALLINT	Foreign key: connects to the category's table primary key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Customer

Columns	Data Type	Description
cunsumer_id	SERIAL	Primary key: unique identifier for customer records
store_id	SMALLINT	Unique store identifier
first_name	CHARACTER VARYING(45)	First name of the customer
last_name	CHARACTER VARYING(45)	Last name of the customer
email	CHARACTER VARYING(50)	Email address of the customer
address_id	SMALLINT	Foreign key: connects to the address's table primary key
activebool	BOOLEAN	Categorize customers as "active" (true) and "not active" (false).
create_date	DATE	Date customer subscribed
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated
active	INTEGER	Code: (1) for active and (0) for not active.

Staff

Columns	Data Type	Description
staff_id	SERIAL	Primary key: unique identifier for staff records
first_name	CHARACTER VARYING(45)	Staff first name
last_name	CHARACTER VARYING(45)	Staff last name
address_id	SMALLINT	Foreign key: connects to the address's table primary key
email	CHARACTER VARYING(50)	Staff email address
store_id	SMALLINT	Unique store identifier
active	BOOLEAN	Categorize customers as "active" (true) and "not active" (false).
username	CHARACTER VARYING(16)	Username of staff account
password	CHARACTER VARYING(40)	Password of staff account
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated
picture	BYTEA	Staff profile picture

Store

Columns	Data Type	Description
store_id	SERIAL	Primary key: unique identifier for store records
manager_staff_id	SMALLINT	Foreign key: connects to the staff's table primary key
address_id	SMALLINT	Foreign key: connects to the address's table primary key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Actor

Columns	Data Type	Description
actor_id	SERIAL	Primary key: unique identifier for actor records
first_name	CHARACTER VARYING(45)	Actor first name
last_name	CHARACTER VARYING(45)	Actor last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Film

Columns	Data Type	Description
film_id	SERIAL	Primary key: unique identifier for film records
title	CHARACTER VARYING(255)	Film title
description	TEXT	Film description (text)
release_year	YEAR	Year film was released
language_id	SMALLINT	Foreign key: connects to the language's table primary key
rental_duration	SMALLINT	Number of days film was rented
rental_rate	NUMERIC(4,2)	Rating of film (up to 5)
length	SMALLINT	Length of film in minutes
replacement_cost	NUMERIC(5,2)	Cost to replace film
rating	mpaa_rating	Age restrictions rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated
special_features	TEXT[]	Anything related to the film (videos, trailers, etc)
fulltext	TSVECTOR	String of text into tokens that are used for searching.

Language

Columns	Data Type	Description
language_id	SERIAL	Primary key: unique identifier for Language records
name	CHARACTER(20)	Name of language in film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Category

Columns	Data Type	Description
category_id	SERIAL	Primary key: unique identifier for category records
name	CHARACTER VARYING(25)	Name of film's genre
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Address

Columns	Data Type	Description
address_id	SERIAL	Primary key: unique identifier for address records
address	CHARACTER VARYING(50)	Primary address
address2	CHARACTER VARYING(50)	Secondary address (optional)
district	CHARACTER VARYING(20)	Name of district
city_id	SMALLINT	Foreign key: connects to the city's table primary key
postal_code	CHARACTER VARYING(10)	Postal code
phone	CHARACTER VARYING(20)	Phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

City

Columns	Data Type	Description
city_id	SERIAL	Primary key: unique identifier for city records
city	CHARACTER VARYING(50)	City name
country_id	SMALLINT	Foreign key: connects to the country's table primary key
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Country

Columns	Data Type	Description
country_id	SERIAL	Primary key: unique identifier for country records
country	CHARACTER VARYING(50)	Name of country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the record was last updated

Tableau Links

- https://public.tableau.com/views/Unruh_Top10Countries/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- https://public.tableau.com/views/Unruh_CustomersbyCountryMap/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- https://public.tableau.com/views/Unruh_Top10Cities/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- https://public.tableau.com/views/Unruh_Top5Customers/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- https://public.tableau.com/views/Unruh_rentalduration/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- https://public.tableau.com/views/Unruh_rentalrates/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- https://public.tableau.com/views/Unruh_rentalfilmratings/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- https://public.tableau.com/views/Unruh_filmreplacementcost/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
- https://public.tableau.com/views/Unruh_RentalCategories/Sheet1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

KaCee Unruh
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