

Data Dictionary



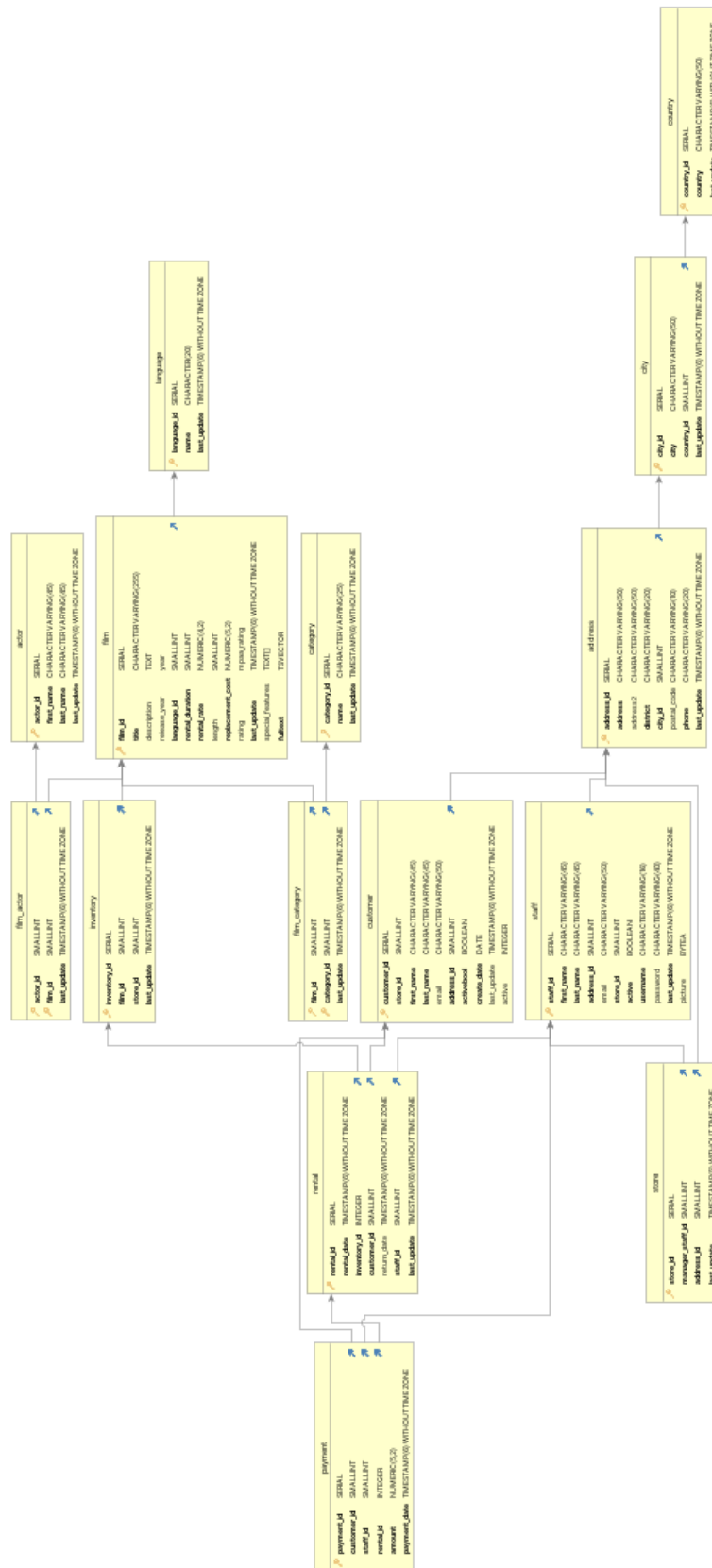
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1. Entity Relationship Diagram (ERD)



2. Fact tables

2.1 Payment Table

Key	Columns	Data Type	Description
Primary Key	Payment_id	serial	unique identifier for payment
Foreign Key	Customer_id	Small int	unique identifier for customer
Foreign Key	Staff_id	Small int	unique identifier for staff
Foreign Key	Rental_id	integer	unique identifier for rental
	Amount	numeric (5,2)	cost in numerical value
	Payment_date	timestamp(6) without time zone	date of payment without time zone

Payment Table Links To:

Table	Link
Customer	Payment.customer_id=Customer.customer_id
Staff	Payment.staff_id=Staff.staff_id
Rental	Payment.rental_id=Rental.rental_id

Payment Table Links From: N/A

2.2 Rental Table

Key	Columns	Data Type	Description
Primary Key	Rental_id	serial	unique identifier for rental
	Rental_date	timestamp(6) without time zone	date of rental without time zone
Foreign Key	Inventory_id	integer	unique identifier for inventory
Foreign Key	Customer_id	Small int	unique identifier for customer
	Return_date	timestamp(6) without time zone	date of return without time zone
Foreign Key	Staff_id	Small int	unique identifier for staff
	Last_update	timestamp(6) without time zone	last update without time zone

Rental Table Links To:

Table	Link
Inventory	Rental.inventory_id=Inventory.Inventory_id
Customer	Rental.customer_id=Customer.customer_id

Staff	Rental.staff_id=Staff.staff_id
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Payment Table Links From:

Table	Link
Payment	Payment.rental_id=Rental.rental_id

3. Dimension Tables

3.1 Staff Table

Key	Columns	Data Type	Description
Primary Key	Staff_id	Serial	unique identifier of staff member
	First_name	Character varying (45)	first name of staff member
	Last_name	Character varying (45)	last name of staff member
Foreign Key	Address_id	Small int	unique identifier of address
	Email	Character varying (50)	staff member email address
	Store_id	Small int	unique identifier of store
	Active	Boolean	status of whether staff is currently employed
	username	Character varying (16)	staff member's username
	password	Character varying (40)	staff member's password
	Last_update	timestamp(6) without time zone	last update of staff member profile
	picture	Bytea	picture of staff member

Staff Table Links To:

Table	Link
Address	staff.address_id = address.address_id

Staff Table Links From:

Table	Link
Store	store.manager_staff_id = staff.staff_id
Rental	rental.staff_id = staff.staff_id
Payment	payment.staff_id = staff.staff_id

3.2 Customer Table

Key	Columns	Data Type	Description
Primary Key	customer_id	serial	unique identifier of customer
Foreign Key	store_id	small int	unique identifier of store
	first_name	character varying (45)	first name of customer
	last_name	character varying (45)	last name of customer
	email	character varying (50)	customer email address
Foreign Key	address_id	small int	unique identifier of address
	activebool	boolean	status of whether customer is active or not
	create_date	date	date of customer profile creation
	last_update	timestamp(6) without time zone	last update of customer profile
	active	integer	active status represented by 1 or 0

Customer Table Links To:

Table	Link
Address	Customer.address_id=address.address_id

Customer Table Links From:

Table	Link
Rental	rental.customer_id = customer.customer_id
Payment	payment.customer_id = customer.customer_id

3.3 Address Table

Key	Columns	Data Type	Description
Primary Key	address_id	serial	unique identifier of address
	address	character varying (50)	first line of address
	address2	character varying (50)	second line of address
	district	character varying (20)	region of address
Foreign Key	city_id	small int	unique identifier of city
	postal_code	character varying (10)	postal code for address
	phone	character varying (20)	phone number for address
	last_update	timestamp(6) without time zone	last update of address

Address Table Links To:

Table	Link
City	address._city_id = city.city_id

Address Table Links From:

Table	Link
Staff	staff.address_id = address.address_id
Store	store.address_id = address.address_id
Customer	customer.address_id = address.address_id

3.4 Store Table

Key	Columns	Data Type	Description
Primary Key	store_id	serial	unique identifier of store
Foreign Key	manager_staff_id	Small int	unique identifier of staff manager
Foreign Key	address_id	Small int	unique identifier of address
	last_update	timestamp(6) without time zone	last update of store profile

Store Table Links To:

Table	Link
Staff	store.manager_staff_id = staff.staff_id
Address	store.address_id = address.address_id

Store Table Links From: N/A

3.5 Country Table

Key	Columns	Data Type	Description
Primary Key	country_id	serial	unique identifier of country
	country	character varying (50)	name of country
	last_update	timestamp(6) without time zone	last update of country

Country Table Links To: N/A

Country Table Links From:

Table	Link
City	city.country_id = country.country_id

3.6 City Table

Key	Columns	Data Type	Description
Primary Key	city_id	serial	unique identifier of city
	city	character varying (50)	name of city
Foreign Key	country_id	Small int	unique identifier of country
	last_update	timestamp(6) without time zone	last update of city

City Table Links To:

Table	Link
Country	city.country_id = country.country_id

City Table Links From:

Table	Link
Address	address.city_id = city.city_id

3.7 Film Table

Key	Columns	Data Type	Description
Primary Key	film_id	serial	unique identifier of film
	title	character varying (255)	full title of film
	description	text	description of film
	release_year	year	release year of film
Foreign Key	language_id	small int	unique identifier of language
	rental_duration	Small int	duration of rental
	rental_rate	numeric (4,2)	cost of rental
	length	small int	length of film
	replacement_cost	umeric (5,2)	cost to replace film
	rating	mpaa_rating	rating of film
	last_update	timestamp(6) without time zone	last update of film profile
	special_features	text	Special features of film
	fulltext	tsvector	full text index; info about significant words and their location

Film Table Links To:

Table	Link
Language	film.language_id = language.language_id

Film Table Links From:

Table	Link
Film Actor	film_actor.film_id = film.film_id
Inventory	inventory.film_id = film.film_id
Film Category	film_category.film_id = film.film_id

3.8 Film Actor Table

Key	Columns	Data Type	Description
Primary Key, Foreign Key	actor_id	Small int	unique identifier of actor
Primary Key, Foreign Key	film_id	Small int	unique identifier of film
	last_update	timestamp(6) without time zone	last update of film actor

Film Actor Table Links To:

Table	Link
Film	film_actor.film_id = film.film_id
Actor	film_actor.actor_id = actor.actor_id

Film Actor Table Links From: N/A

3.9 Actor Table

Key	Columns	Data Type	Description
Primary Key	actor_id	serial	unique identifier of 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	last update of actor profile

Actor Table Links To: N/A

Actor Table Links From:

Table	Link
Film Actor	film_actor.actor_id = actor.actor_id

3.10 Language Table

Key	Columns	Data Type	Description
Primary Key	language_id	serial	unique identifier of language
	name	character (20)	name of language
	last_update	timestamp(6) without time zone	last update of language

Language Table Links To: N/A

Language Table Links From:

Table	Link
Film	film.language_id = language.language_id

3.11 Film Category Table

Key	Columns	Data Type	Description
Primary Key, Foreign Key	film_id	small int	unique identifier of film
Primary Key, Foreign Key	category_id	small int	unique identifier of category
	last_update	timestamp(6) without time zone	last update of film

Film Category Table Links To:

Table	Link
Film	Film_category.film_id=Film.film_id
Category	Film_category.category_id=Category.category_id

Film Category Table Links From: N/A

3.12 Category Table

Key	Columns	Data Type	Description
	category_id	serial	unique identifier of category
	name	character varying (25)	name of category
	last_update	timestamp(6) without time zone	last update of category

Category Table Links To: N/A

Category Table Links From:

Table	Link
Film Category	film_category.category_id = category.category_id

3.13 Inventory Table

Key	Columns	Data Type	Description
Primary Key	inventory_id	serial	unique identifier of inventory
Foreign Key	film_id	small int	unique identifier of film

Foreign Key	store_id	small int	unique identifier of store
	last_update	timestamp(6) without time zone	last update of inventory

Inventory Table Links To:

Table	Link
Film	inventory.film_id=film.film_id

Inventory Table Links From:

Table	Link
Rental	rental.inventory_id=inventory.inventory_id