

Data Dictionary

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1. Entity Relationship Diagram



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Fact Tables

2.1 Payment Table

	Columns	Data type	Description
🔑	payment_id	serial	Primary key for payment records ID for payment
↗	customer_id	smallint	Foreign key for customer records Unique customer ID
↗	staff_id	smallint	Foreign key for staff records ID for staff
↗	rental_id	integer	Foreign key for rental records ID for rental movie
	amount	numeric(5,2)	Payment amount (up to 5 digits with 2 decimals)
	payment_date	timestamp(6) without timezone	Date of payment

Links To:

- Customer (customer_id)
- Staff (staff_id)
- Rental (rental_id)

Links From:

- None

2.2 Rental Table

	Columns	Data type	Description
🔑	rental_id	serial	Primary key for rental records ID for rental movie
	rental_date	timestamp(6) without timezone	Date of rental
↗	inventory_id	integer	Foreign key for inventory records ID for managing inventory
↗	customer_id	smallint	Foreign key for customer records Unique customer ID
	return_date	timestamp(6) without timezone	Return date

↗	staff_id	smallint	Foreign key for staff records ID for staff
	last_update	timestamp(6) without timezone	Date for last status update

Links To:




- Inventory (inventory_id)
- Customer (customer_id)
- Staff (staff_id)

Links From:

- Payment (rental_id)

Dimension Tables

3.1 Store Table

	Columns	Data type	Description
	store_id	serial	Primary key for store records ID for store
	manager_staff_id	smallint	Foreign key for staff records ID for manager
	address_id	smallint	Foreign key for address records ID for store address
	last_update	timestamp(6) without timezone	Date of last status update



Links To:

- Staff (manager_staff_id)
- Address (address_id)

Links From:

- None

3.2 Film Actor Table

	Columns	Data type	Description
	actor_id	smallint	Primary key for actor records ID for movie actor
	film_id	smallint	Primary key for film records ID for movie
	last_update	timestamp(6) without timezone	Date of last status update

Links To:

- Film (film_id)
- Actor (actor_id)

Links From:

- None

3.3 Inventory Table

	Columns	Data type	Description
🔑	inventory_id	serial	Primary key for inventory records ID for managing inventory
↗	film_id	smallint	Foreign key for film records ID for movie
	store_id	smallint	ID for store
	last_update	timestamp(6) without timezone	Date of last status update

Links To:

- Film (film_id)

Links From:

- None

3.4 Film Category Table

	Columns	Data type	Description
🔑	film_id	smallint	Primary key for film records ID for movie
🔑	category_id	smallint	Primary key for category records ID for movie category
	last_update	timestamp(6) without timezone	Date of last status update

Links To:

- Film (film_id)
- Category (category_id)

Links From:

- None

3.5 Customer Table

	Columns	Data type	Description
🔑	customer_id	serial	Primary key for customer records

			Unique customer ID
	store_id	smallint	ID for store
	first_name	character varying (45)	First name, up to 45 characters
	last_name	character varying (45)	Last name, up to 45 characters
	email	character varying (50)	Customer email, up to 50 characters
↗	address_id	smallint	Foreign key for address records ID for customer address
	activebool	boolean	Is customer active (T/F)
	create_date	date	Date of customer creation
	last_update	timestamp(6) without timezone	Date of last status update
	active	integer	Is customer active (1/0)

Links To:

- Address (address_id)

Links From:

- Rental (customer_id)
- Payment (customer_id)

3.6 Staff Table

	Columns	Data type	Description
🔑	staff_id	serial	Primary key for staff records ID for staff
	first_name	character varying (45)	First name, 45 character limit
	last_name	character varying (45)	Last name, 45 character limit
↗	address_id	smallint	Foreign key for address records ID for address
	email	character varying (50)	Email, 50 character limit
	store_id	smallint	ID for store
	active	Boolean	Is staff active (T/F)
	username	character varying (16)	Staff username, 16 character limit
	password	character varying (40)	Password, 40 character limit
	last_update	timestamp(6) without timezone	Date of last status update
	picture	bytea	Photo


Links To:

- Address (address_id)

Links From:

- Store (manager_staff_id)
- Payment (staff_id)
- Rental (staff_id)

3.7 Actor Table

	Columns	Data type	Description
	actor_id	serial	Primary key for actor records ID for actor
	first_name	character varying (45)	First name, 45 character limit
	last_name	character varying (45)	Last name, 45 character limit
	last_update	timestamp(6) without timezone	Date of last status update



Links To:

- None

Links From:

- Actor (actor_id)

3.8 Film Table

	Columns	Data type	Description
	film_id	serial	Primary key for film records ID for movie
	title	character varying (255)	Movie title
	description	text	Movie description
	release_year	year	Release year
	language_id	smallint	Foreign key for language records ID for movie language
	rental_duration	smallint	Length of rental
	rental_rate	numeric(4,2)	Number of rentals over time
	length	smallint	Movie length
	replacement_cost	numeric(5,2)	Cost of replacement
	rating	mpaa_rating	Movie rating
	last_update	timestamp(6) without timezone	Date of last status update

	special_features	text[]	Special features included
	fulltext	tsvector	Most frequent words


Links To:

- Language (language_id)

Links From:

- Film (film_id)
- Inventory (film_id)
- Film category (film_id)

3.9 Category Table

	Columns	Data type	Description
	category_id	serial	Primary key for category records ID for category
	name	character varying (25)	Name of category
	last_update	timestamp(6) without timezone	Date of last status update



Links To:

- None

Links From:

- Category (category_id)

3.10 Address Table

	Columns	Data type	Description
	address_id	serial	Primary key for address records ID for address
	address	character varying (50)	Address, 50 character limit
	address2	character varying (50)	2 nd line address, 50 character limit
	district	character varying (20)	District, 20 character limit
	city_id	smallint	Foreign key for city records ID for city
	postal_code	character varying (10)	Postal code, 10 character limit

	phone	character varying (20)	Phone number, 20 character limit
	last_update	timestamp(6) without timezone	Date of last status update


Links To:

- City (city_id)

Links From:

- Customer (address_id)
- Staff (address_id)
- Store (address_id)

3.11 Language Table

	Columns	Data type	Description
	language_id	serial	Primary key for language records ID for language
	name	character (20)	Name of language
	last_update	timestamp(6) without timezone	Date of last status update



Links To:

- None

Links From:

- Language (language_id)

3.12 City Table

	Columns	Data type	Description
	city_id	serial	Primary key for city records ID for city
	city	character varying (50)	Name of city
	country_id	smallint	Foreign key for country records ID for country
	last_update	timestamp(6) without timezone	Date of last status update


Links To:

- Country (country_id)

Links From:

- Address (city_id)

3.13 Country Table

	Columns	Data type	Description
	country_id	serial	Primary key for country records ID for country
	country	character varying (50)	Name of country
	last_update	timestamp(6) without timezone	Date of last status update

Links To:

- None

Links From:

- City (city_id)