

Rockbuster

Data Dictionary

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1. Entity Relationship Diagram:






Schema Type: this is a Snowflake schema. The fact tables “payment” and “rental” are surrounded by dimensions such as film actor, inventory, customer, film_category, staff, ect and then by sub dimension tables.


2. Legend

	Primary Key
	Foreign Key







3. Fact Tables:

3.1 Payment

Column	Data Type	Description
Payment_id 	SERIAL	Unique identifier of payment transaction
Customer_id 	SMALLINT	Unique identifier of customer
Staff_id 	SMALLINT	Unique identifier of staff who handled


		the transaction
Rental_id 	INTEGER	Unique identifier of rental sale
amount	NUMERIC(5,2)	Total sale amount
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time payment was received/confirmed

3.2 Rental


Column	Data Type	Description
Rental_id 	SERIAL	Unique identifier of rental sale
Rental_date 	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time unit was rented out
Inventory_id 	INTEGER	Unique inventory identifier for rental unit
Customer_id 	SMALLINT	Unique identifier of customer
Return_date 	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time unit was returned
Staff_id 	SMALLINT	Unique identifier for staff who handled the transaction

4. Dimensions Table:




4.1 Film_actor

Column	Data Type	Description
Actor_id 	SMALLINT	Unique identifier of actor
film_id	SMALLINT	Unique identifier of film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update



4.2 Actor

Column	Data Type	Description
Actor_id 	SERIAL	Unique identifier of actor
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 last record update

4.3 Inventory


Column	Data Type	Description
Inventory_id 	SERIAL	Unique identifier of inventory item
Film_id 	SMALLINT	Unique identifier of film
Store_id 	SMALLINT	Unique store identifier
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update

4.4 Film





Column	Data Type	Description
Film_id 	SERIAL	Unique identifier of film
title	CHARACTER VARYING(255)	Title name of film
description	TEXT	Description of film
release_year	year	Year film was released
Language__id 	SMALLINT	Unique identifier of language
rental_duration	SMALLINT	Number of days film was

		rented
rental_rate	NUMERIC(4,2)	Cost of rental per day
length	SMALLINT	Film length (minutes)
replacement_cost	NUMERIC(5,2)	Cost to replacement the film
rating	mpaa_rating	Which age groups can view the film (G, PG, PG-13, ect)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update
special_features	TEXT[]	Special features of the film
fulltext	TVSECTOR	Text of the film


4.5 Language

Column	Data Type	Description
Language_id 	SERIAL	Unique identifier of language
name	CHARACTER(20)	Language name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update




4.6 Film_category

Column	Data Type	Description
Film_id  	SMALLINT	Unique film identifier
category_id  	SMALLINT	Unique identifier of a film category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update



4.7 Category

Column	Data Type	Description
Category_id 	SERIAL	Unique identifier of category
name	CHARACTER VARYING(25)	Category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update



4.8 Customer

Column	Data Type	Description
Customer_id 	SERIAL	Unique identifier of customer
Store_id 	SMALLINT	Unique store identifier
first_name	CHARACTER VARYING(45)	Customer first name
last_name	CHARACTER VARYING(45)	Customer last name
email	CHARACTER VARYING(50)	Customer email address
Address_id 	SMALLINT	Unique identifier for customer address
activebool	BOOLEAN	Active or not (true/false)
create_date	DATE	Date customer was added
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update
active	INTEGER	Active or not (binary)




4.9 Address

Column	Data Type	Description
Address_id 	SERIAL	Unique identifier for address
address	CHARACTER VARYING(50)	Address details
address2	CHARACTER VARYING(50)	Additional address details
district	CHARACTER VARYING(20)	Name of the district
city_id 	SMALLINT	Unique identifier of a city
postal_code	CHARACTER VARYING(10)	Postal code details
phone	CHARACTER VARYING(20)	Phone number details
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update




4.10 City

Column	Data Type	Description
City_id 	SERIAL	Unique identifier of city
city	CHARACTER VARYING(50)	City name
Country_id 	SMALLINT	Unique identifier of city
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update

4.11 Staff

Column	Data Type	Description
Staff_id 	SERIAL	Unique identifier of staff
first_name	CHARACTER VARYING(45)	Staff first name
last_name	CHARACTER VARYING(45)	Staff last name
Address_id 	SMALLINT	Unique identifier for staff address
email	CHARACTER VARYING(50)	Staff email address
Store_id 	SMALLINT	Unique store identifier
active	BOOLEAN	Active or not (true/false)
username	CHARACTER VARYING(50)	Staff username
password	CHARACTER VARYING(40)	Staff password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of last record update
picture	BYTEA	Staff photo

4.12 Store

Column	Data Type	Description
Store_id 	SERIAL	Unique identifier of a store
Manager_staff_id 	SMALLINT	Unique identifier of the store manager
Address_id 	SMALLINT	Address of the store

last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of record last updated
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