

## Data Storage & Structure

### Step 2



### Step 3

Data Dictionary:

Schema Type: Snowflake schema

Fact table: Payment and Rental

Dimension tables: the rest

Table	Column	Data Type	Description
Payment	Payment_id	Serial	Unique payment identifier
	Customer_id	Small Int	Unique customer identifier
	Staff_id	Small Int	Unique staff identifier
	Rental_id	Integer	Unique rental identifier
	Amount	Numeric(5,2)	Payment Amount
	Payment_date	Timestamp without time zone	Payment Date

Table	Column	Data Type	Description
Rental	Rental_id	Serial	Unique rental identifier
	Rental_date	Timestamp without time zone	Rental Date
	Inventory_id	Integer	Unique inventory identifier
	Customer_id	Small Int	Unique customer identifier
	Return_date	Timestamp without time zone	Return Date
	Staff_id	Small Int	Unique staff identifier
	Last_update	Timestamp without time zone	Last update

Table	Column	Data Type	Description
Film Actor	Actor_id	Small Int	Unique identifier of actor
	Film_id	Small Int	Unique identifier of film
	Last_update	Timestamp without time zone	last update

Table	Column	Data Type	Description
Inventory	Inventory_id	Serial	Unique identifier of inventory
	Film_id	Small Int	Unique identifier of film
	Store_id	Small Int	Unique identifier of store
	Last_update	Timestamp without time zone	Last update

Table	Column	Data Type	Description
Film Category	Film_id	Small Int	Unique identifier of film
	Category_id	Small Int	Unique identifier of category
	Last_update	Timestamp without time zone	Last update

Table	Column	Data Type	Description
Customer	Customer_id	Small Int	Unique customer identifier
	Store_id	Small Int	Unique identifier of store
	First_name	Character Varying(45)	Customer first name
	Last_name	Character Varying(45)	Customer last name
	Email	Character Varying(50)	Customer email
	Address_id	Small Int	Unique identifier of address
	Activebool	Boolean	Active customers
	Create_date	Date	Customer ID creation date
	Last_update	Timestamp without time zone	Last update
	Active	Integer	Active status

Table	Column	Data Type	Description
Staff	Staff_id	Serial	Unique identifier of staff member
	First_name	Character Varying(45)	Staff member first name
	Last_name	Character Varying(45)	Staff member last name
	Address_id	Small Int	Unique identifier of address
	Email	Character Varying(50)	Staff member email
	Store_id	Small Int	Unique identifier of store
	Active	Boolean	Staff member active
	username	Character Varying(16)	Staff member username
	Password	Character Varying(40)	Staff member password
	Last_update	Timestamp without time zone	Last update
	Picture	Bytea	Staff member picture

Table	Column	Data Type	Description
Actor	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 without time zone	Last update

Table	Column	Data Type	Description
Film	Film_id	Serial	Unique identifier of film
	Title	Character Varying(255)	Film title
	Description	Text	Film description
	Release_year	Year	Film release year
	Language_id	Small Int	Film language
	Rental_duration	Small Int	Rental duration
	Rental_rate	Numeric(4,2)	Rental rate
	Length	Small Int	Film duration
	Replacement_cost	Numeric(S,2)	Film replacement cost
	Rating	Mpaa_rating	Film rate
	Last_update	Timestamp without time zone	Last update
	Special_features	Text []	Film special feature
	Fulltext	Tsvector	Film index

Table	Column	Data Type	Description
Category	Category_id	Serial	Unique identifier of category
	Name	Character Varying(25)	Name of category
	Last_update	Timestamp without time zone	Time of last update

Table	Column	Data Type	Description
Address	Address_id	Serial	Unique identifier of address
	Address	Character Varying(50)	Address 1
	Address2	Character Varying(50)	Address 2
	District	Character Varying(20)	District
	City_id	Small Int	Unique identifier of city
	Postal_code	Character Varying(10)	Postal code
	Phone	Character Varying(20)	Phone number
	Last_update	Timestamp without time zone	Last update

Table	Column	Data Type	Description
Language	Language_id	Serial	Unique identifier of language
	Name	Character Varying(20)	Language
	Last_update	Timestamp without time zone	Last update

Table	Column	Data Type	Description
City	City_id	Serial	Unique identifier of city
	City	Character Varying(50)	City name
	Country_id	Small Int	Unique identifier of country
	Last_update	Timestamp without time zone	Last update

Table	Column	Data Type	Description
Country	Country_id	Serial	Unique identifier of country
	Country	Character Varying(50)	Country name
	Last_update	Timestamp without time zone	Last update

Table	Column	Data Type	Description
Store	store_id	serial	Unique identifier of store
	manager_staff_id	small int	Unique identifier of staff manager
	address_id	small int	Unique identifier of address
	last_update	timestamp(6) without time zone	Last update

## Step 4

Which actors brought Rockbuster the most revenue?

Rental, Payment, Actor, File Actor, Inventory

What language are the majority of movies in the collection?

Language, Film, inventory