

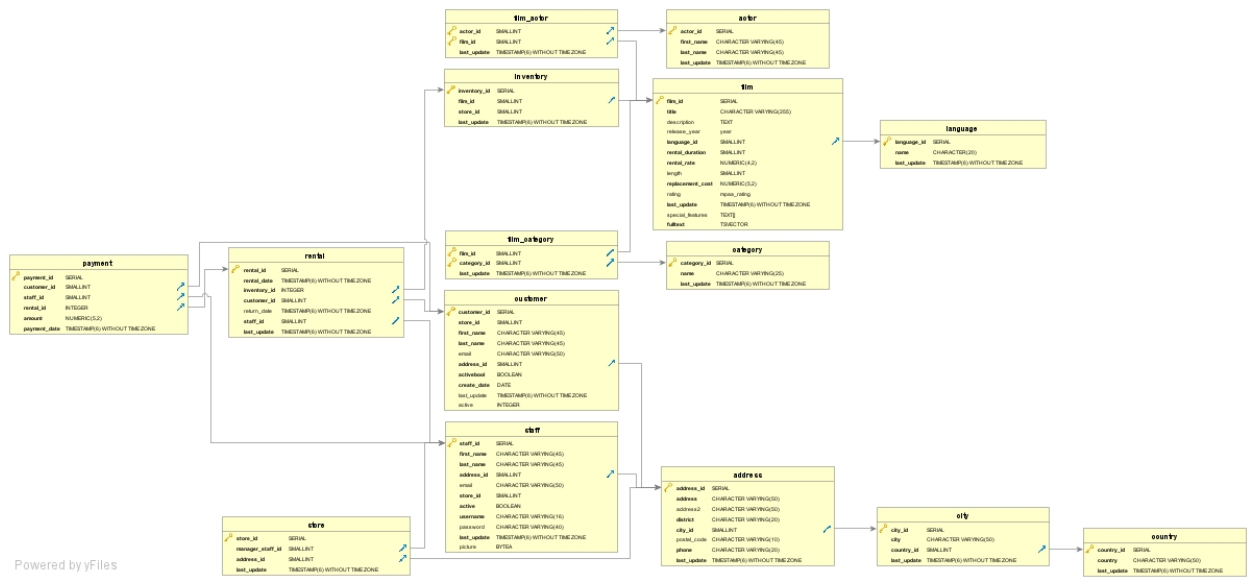
ROCKBUSTER

Data Dictionary

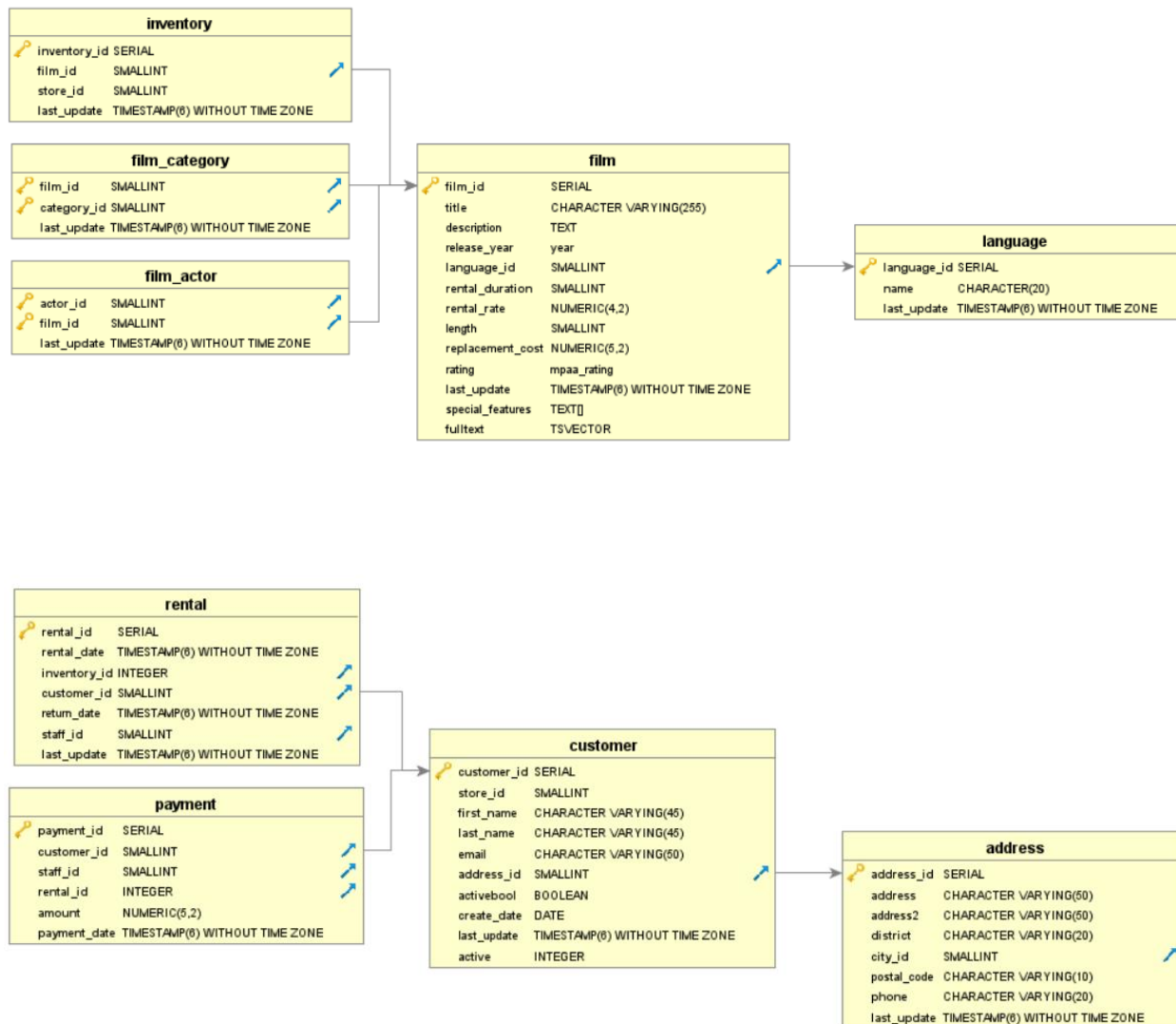
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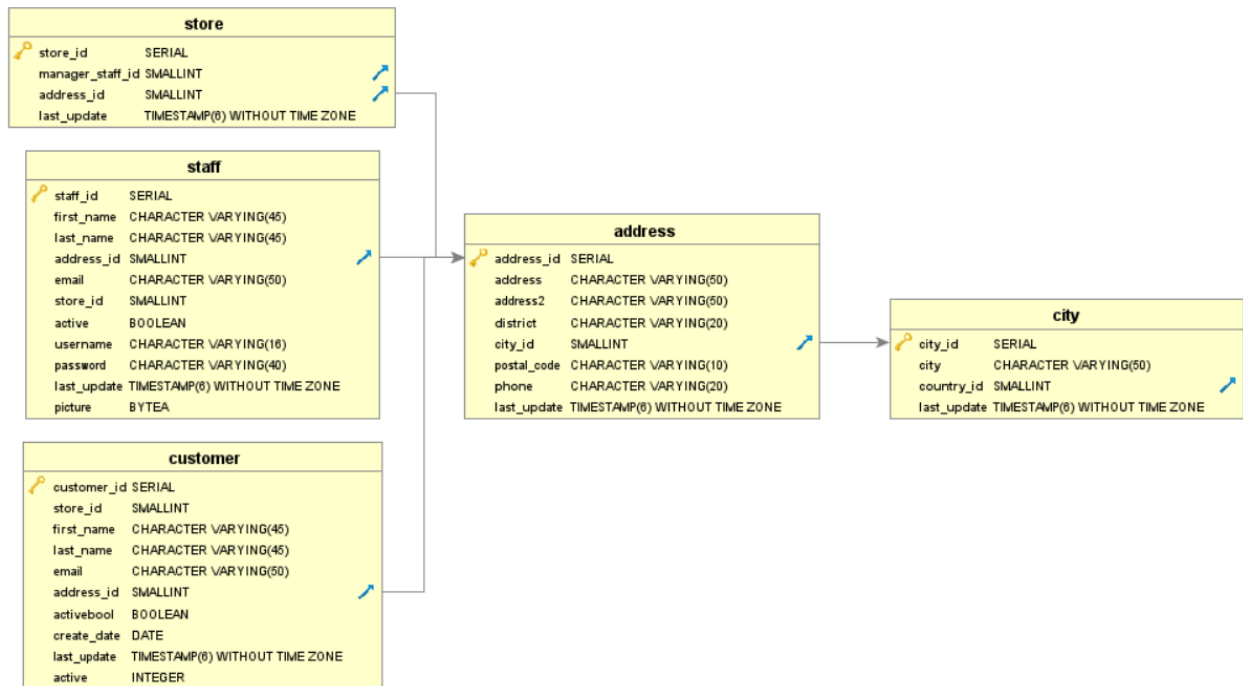
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1. Business Entities

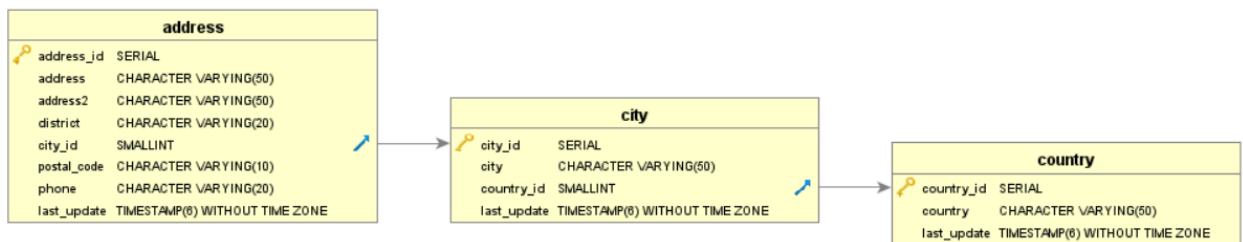


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2. Tables

Columns	Data Type	Description
Payment	Serial	Payment_ID , payment amount, customer ID, Rental ID, costumer ID, payment date
Rental	Serial	Rental ID , rental date of takeout and return, customer ID, inventory ID, customer ID
Store	Serial	Store_ID , Managers ID per store ID
Film_actor	Small_int	Actor ID , film ID , last_update
Inventory	Serial	Film ID per store ID, inventory ID
Film_category	Small_int	Film ID and category ID , last update
Customer	Serial	Customer ID , email, store ID and address
Staff	Serial	Staff ID , First and last, email, store ID, username and password
Actor	Serial	Actor ID , first and last
Film	Serial	Title, description, release year, length and rating, language ID, film ID
Category	Serial	Category and category ID
Address	Serial	Address ID , address and phone number
Language	Serial	Language ID and language
City	Serial	City ID , city and country ID
Country	Serial	Country ID and country

Note: On **BOLD** letters are the key fields.

3. Payment Table

Columns	Data Type	Description
Payment_id	Serial	Id for payment
Customer_id	Smallint	Id for customer
Staff_id	Smallint	Id for staff
Rental_id	Integer	Id for rental unit
Amount	Numeric(5,2)	Amount made in \$
Payment_Date	Timestamp(6)	Payment date

Key Links

Columns	Link	Key Field
Payment	Rental	Rental_id
Payment	Customer	Customer_id
Payment	Staff	Staff_id

4. Film_Actor Table

Columns	Data Type	Description
Actor_id	Smallint	Id for actor
Film_id	Smallint	Id for movie
Last_update	Timestap(6)	Updated last date

Key Links

Columns	Link	Key Field
Film_actor	Actor	Actor_id
Film_actor	Film	Film_id

5. Rental Table

Columns	Data Type	Description
Rental_id	Serial	Id for rental unit
Rental_date	Timestamp(6)	Day rent is due
Inventory_id	Integer	Id for inventory
Customer_id	Smallint	Id for customer
Return_date	Timestamp(6)	Last day to get a refund
Staff_id	Smallint	Id of staff that processed transaction
Last_update	Timestamp(6)	Updated last date

Key Links

Columns	Link	Key Field
Rental	Inventory	Inventory_id
Rental	Customer	Customer_id
Rental	Staff	Staff_id

6. Film_Category Table

Columns	Data Type	Description
Film_id	Smallint	Id for movie
Category_id	Smallint	Id for genre of movie
Last_update	Timestap(6)	Updated last date

Key Links

Columns	Link	Key Field
Film_category	Film	Film_id
Film_category	Category	Category_id

7. Store Table

Columns	Data Type	Description
Store_id	Serial	Id for store
Manager_staff_id	Smallint	Id for manager in store
Address_id	Smallint	Id for address of store
Last_update	Timestap(6)	Updated last date

Key Links

Columns	Link	Key Field
Store	Address	Address_id
Store	Staff	Staff_id

8. Inventory Table

Columns	Data Type	Description
Inventory_id	Serial	Id of inventory
Film_id	Smallint	Id of movie
Store_id	Smallint	Id of store
Last_update	Timestap(6)	Updated last date

Key Links

Columns	Link	Key Field
Inventory	Film	Film_id

9. Customer Table

Columns	Data Type	Description
Customer_id	Serial	Id of customer
Store_id	Smallint	Id of store customer goes to
First_name	Character (45)	First name of customer
Last_name	Character (45)	Last name of customer
Email	Character (45)	Email of customer
Address_id	Smallint	Id for address
Activebool	Boolean	Boolean
Create_date	Date	1 st date customer started
Last_update	Timestamp(6)	Updated last date
Active	Integer	To determine whether customer still active

Key Links

Columns	Link	Key Field
Customer	Address	Address_id

10. Film Table

Columns	Data Type	Description
Film_id	Serial	Id of movie
Title	Character (255)	Title of movie
Description	Text	Description of movie
Release_year	Year	Year of release of movie
Language_id	Smallint	Original movie language
Rental_duration	Smallint	Day(s) the movie rented for
Rental_rate	Numeric (4,2)	\$ amount payed per day
Length	Smallint	Length of movie in minutes
Replacement_cost	Numeric (5,2)	Cost to replace movie
Rating	Mpaa_rating	Rating of movie
Last_update	Timestamp(6)	Updated last date
Special_features	Text[]	Added movie scenes
Fulltext	Tsvector	Movie tags

Key Links

Columns	Link	Key Field
Film	Language	Language_id

11. Staff Table

Columns	Data Type	Description
Staff_id	Serial	Id of staff
First_name	Character (45)	First name of staff
Last_name	Character (45)	Last name of staff
Address_id	Smallint	Id for staff address
Email	Character (45)	Email of staff
Store_id	Smallint	Id of store staff works at
Active	Boolean	To determine whether staff still active
Username	Character (16)	Username used by staff to access company system
Password	Character (16)	Password used by staff to access company system
Last_update	Timestamp(6)	Updated last date
Picture	BYTEA	Picture of staff member

Key Links

Columns	Link	Key Field
Staff	Address	Address_id

12. Address Table

Columns	Data Type	Description
Address_id	Serial	Id of address
Address	Character (50)	Address
Address2	Character (50)	Alternative address
District	Character (50)	Address district
City_id	Smallint	Id of city
Postal_code	Character (10)	Zip code
Phone	Character (20)	Phone
Last_update	Timestamp(6)	Updated last date

Key Links

Columns	Link	Key Field
Address	City	City_id

13. City Table

Columns	Data Type	Description
City_id	Serial	Id of City
City	Character (50)	City
Country_id	Smallint	Id of country
Last_update	Timestamp(6)	Updated last date

Key Links

Columns	Link	Key Field
City	Country	Country_id

14. Country Table

Columns	Data Type	Description
Country_id	Serial	Id of country
Country	Character (50)	Country
Last_update	Timestamp(6)	Updated last date

15. Language Table

Columns	Data Type	Description
Language_id	Serial	Id of language
Name	Character (20)	Name
Last_update	Timestamp(6)	Updated last date

Process

- a) In order to determine which actor made the most revenue we would need the following 4 tables linked by 1 or 2 factors: Film_actor >> Inventory >> Customer >> Payment.
- b) In order to determine the most popular district of Rockbuster customers we would need the following tables: Address >> Customer.
- c) In order to determine the most popular language we would need the following tables: Language >> Film