

ROCKBUSTER DATA ANALYSIS DICTIONARY

2020 Company Strategy

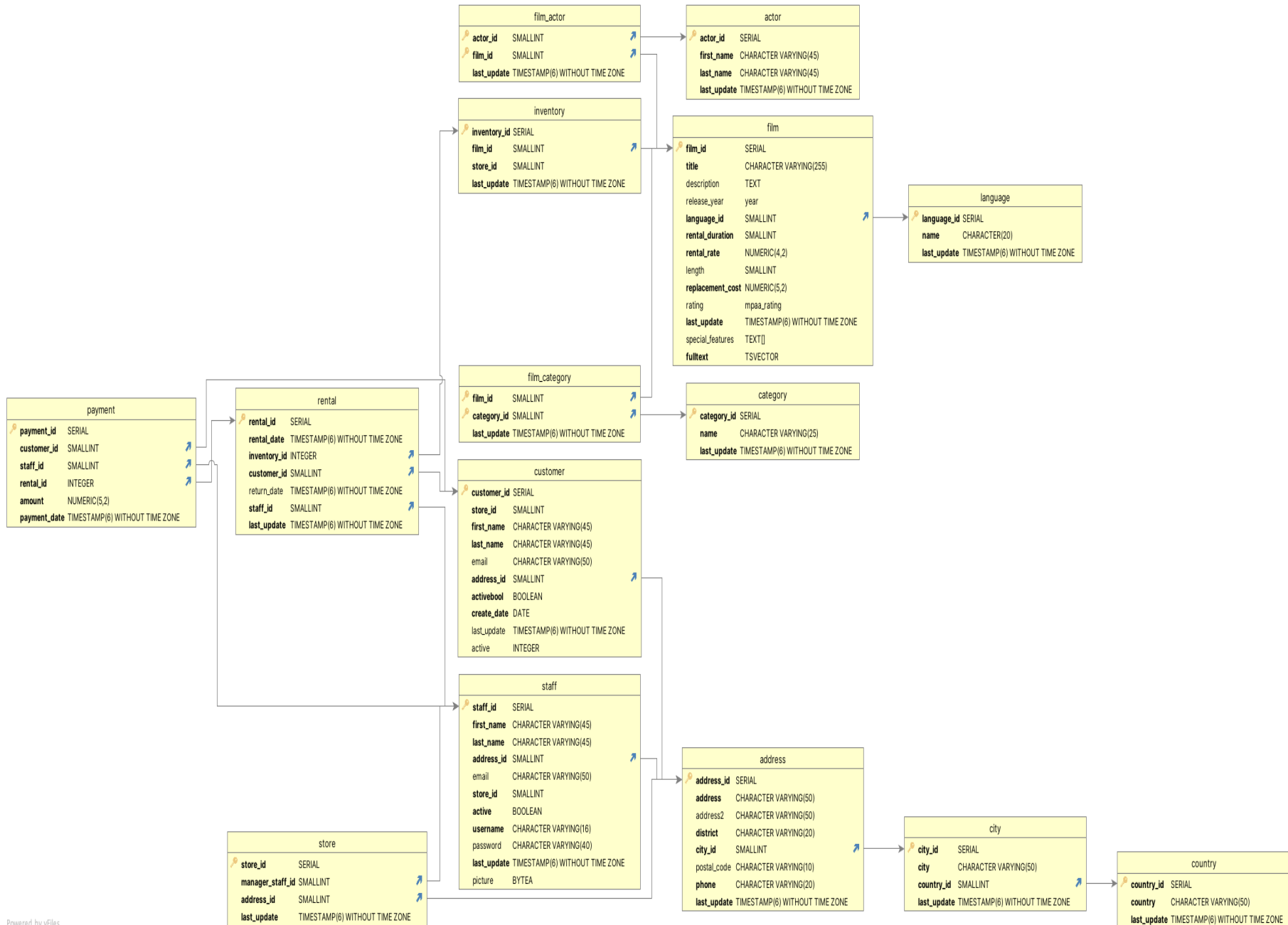


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TABLE OF CONTENTS

Entity Relationship Diagram (ERD).....	3
{Fact Tables}	
Payment table	4
Rental table	5
{Dimension Tables}	
Film_actor table	6
Actor table.....	7
Inventory table.....	8
Film table	9
Language table.....	10
Film_category table.....	11
Category table.....	12
Customer table.....	13
Staff table	14
Address table	15
City table.....	16
Country table	17
Store table.....	18

Entity Relationship Diagram (ERD)



FACT TABLES

Payment

Key	Columns	Data Type	Description
Primary Key	payment_id	SERIAL	Primary key and Unique identifier for payment
Foreign Key	Customer_id	SMALLINT	Foreign key and Unique identifier for customer
Foreign Key	Staff_id	SMALLINT	Foreign key and Unique identifier for staff
Foreign Key	Rental_id	INTEGER	Foreign key and Unique identifier for rental
	Amount	NUMERIC(5,2)	Cost as number with two decimal place values
	Payment_date	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of payment, without timezone

LINKS FROM:

N/A

LINKS TO:

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

Rental

Key	Columns	Data Type	Description
Primary Key	Rental_id	SERIAL	Unique identifier of rental
	Rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of rental, without timezone
Foreign Key	Inventory_id	INTEGER	Unique identifier of inventory
Foreign Key	Customer_id	SMALLINT	Unique identifier of customer
	Return_date	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of rental's return
Foreign Key	Staff_id	SMALLINT	Unique identifier of staff
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone

LINKS FROM:

- Payment table (via rental_id)

LINKS TO:

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

DIMENSION TABLES

Film_actor

Key	Columns	Data Type	Description
Primary/Foreign Key	Actor_id	SMALLINT	Unique identifier of actor
Primary/Foreign Key	Film_id	SMALLINT	Unique identifier of film
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone.

LINKS FROM:

N/A

LINKS TO:

- Actor table (via actor_id)
- Film table (via film_id)

Actor

Key	Columns	Data Type	Description
Primary Key	Actor_id	SERIAL	Unique identifier for actor
	First_name	CHARACTER VARYING(45)	Actor's first name
	Last_name	CHARACTER VARYING(45)	Actor's last name
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone.

LINKS FROM:

- Film_actor table (via film_id)

LINKS TO:

N/A

Inventory

Key	Columns	Data Type	Description
Primary Key	Inventory_id	SERIAL	Unique identifier of inventory
Foreign Key	Film_id	SMALLINT	Unique identifier of film
	Store_id	SMALLINT	Unique identifier of store
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone.

LINKS FROM:

- Rental table (via inventory_id)

LINKS TO:

- Film table (via film_id)

Film

Key	Columns	Data Type	Description
Primary Key	Film_Id	SERIAL	Unique identifier of film
	Title	CHARACTER VARYING(45)	Title of film
	Description	TEXT	Description of film
	Release_year	Year	Year the film was released
Foreign Key	Language_id	SMALLINT	Unique identifier of language
	Rental_duration	SMALLINT	Length of film rental
	Rental_rate	NUMERIC(4,2)	Cost of rental rate
	Length	SMALLINT	Length of film
	Replacement_cost	NUMERIC(5,2)	Replacement cost of film
	Rating	Mpaa_rating	Rating of the film
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone
	Special_features	TEXT[]	Special features of the film
	Fulltext	TSVECTOR	Full text used in film

LINKS FROM:

- Film_actor table (via film_id)
- Inventory table (via film_id)
- Film_category table (via film_id)

LINKS TO:

- Language table (via language_id)

Language

Key	Columns	Data Type	Description
Primary Key	Language_id	SERIAL	Unique identifier of language
	Name	CHARACTER(20)	Language name
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone.

LINKS FROM:

- Film table (via language_id)

LINKS TO:

N/A

Film_category

Key	Columns	Data Type	Description
Primary Key	Film_id	SMALLINT	Unique identifier of film
Foreign Key	Category_id	SMALLINT	Unique identifier of category
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone.

LINKS FROM:

N/A

LINKS TO:

- Category table (via category_id)
- Film table (via film_id)

Category

Key	Columns	Data Type	Description
Primary Key	Category_id	SERIAL	Unique identifier of category
	Name	CHARACTER VARYING(25)	Category name
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone

LINKS FROM:

- Film_category table (via category_id)

LINKS TO:

N/A

Customer

Key	Columns	Data Type	Description
Primary Key	Customer_id	SERIAL	Unique identifier of customer
	Store_id	SMALLINT	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
Foreign Key	Address_id	SMALLINT	Unique identifier of address
	Activebool	BOOLEAN	True or false value
	Create_date	DATE	Date of creation
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone
	Active	INTEGER	Customer active status

LINKS FROM:

- Payment table (via customer_id)
- Rental table (via customer_id)

LINKS TO:

- Address table (via address_id)

Staff

Key	Columns	Data Type	Description
Primary Key	Staff_id	SERIAL	Unique identifier of staff
	First_name	CHARACTER VARYING(45)	Staff first name
	Last_name	CHARACTER VARYING(45)	Staff last name
Foreign Key	Address_id	SMALLINT	Unique identifier of address
	Email	CHARACTER VARYING(50)	Staff email
	Store_id	SMALLINT	Unique identifier of store
	Active	BOOLEAN	True or False if active
	Username	CHARACTER VARYING(16)	Staff username, maximum of 16 characters
	Password	CHARACTER VARYING(40)	Staff password, maximum of 40 characters
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone
	Picture	BYTEA	Picture of staff member

LINKS FROM:

- Payment table (via staff_id)
- Rental table (via staff_id)
- Store table (staff.staff_id = store.manager_staff_id)

LINKS TO:

- Address table (via address_id)

Address

Key	Columns	Data Type	Description
Primary Key	Address_id	SERIAL	Unique identifier of address
	Address	CHARACTER VARYING(50)	Address line 1
	Address2	CHARACTER VARYING(50)	Address line 2
	District	CHARACTER VARYING(20)	Name of district
Foreign Key	City_id	SMALLINT	Unique identifier of city
	Postal_code	CHARACTER VARYING(10)	Postal or Zip Code
	Phone	CHARACTER VARYING(20)	Phone number
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone.

LINKS FROM:

- Customer table (via address_id)
- Staff table (via address_id)
- Store table (via address_id)

LINKS TO:

- City table (via city_id)

City

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	SMALLINT	Unique identifier of country
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone.

LINKS FROM:

- Address table (via city_id)

LINKS TO:

- Country table (via country_id)

Country

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 TIMEZONE	Time and date of last update, without timezone.

LINKS FROM:

- City table (via country_id)

LINKS TO:

N/A

Store

Key	Columns	Data Type	Description
	Store_id	SERIAL	Unique identifier of store
Primary/Foreign Key	Manager_staff_id	SMALLINT	Unique identifier of manager
Primary/Foreign Key	Address_id	SMALLINT	Unique identifier of address
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date of last update, without timezone

LINKS FROM:

N/A

LINKS TO:

- Staff table (store.manager_staff_id = staff.staff_id)
- Address table (via address_id)