ROCKBUSTER

Data Dictionary

This document outlines the tables within the Rockbuster database and how they connect.

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1. Entity Relationship Diagram

2. Fact tables

Name of Table		Columns	Data Type	Description
Payment	🔑	Payment_id	Serial	Unique payment identifier
	🔑	Customer_id	Small Int	Unique customer identifier
	🔑	Staff_id	Small Int	Unique identifier for each staff member
	🔑	Rental_id	Integer	Unique movie rental identifier
		amount	NUMERIC(5,2)	Amount per movie rental
		Payment_date	Date	Date payment is collected

Links to

Table	Join	Description
Customer	Customer_id	Foreign key reference to customer table
Staff	Staff_id	Foreign key reference to customer table
Rental	Rental_id	Foreign key reference to customer table

Linked from: None

Name of Table	Columns	Data Type	Description
Rental	🔑 Rental_id	Serial	Unique rental identifier
	Rental_date	Date	Date of rental
	🔑 Inventory_id	Integer	Unique inventory identifier
	🔑 Customer_id	Small Int	Unique customer identifier
	Return_date	Date	Date of return
	🔑 Staff_id	Small Int	Unique staff identifier
	Last_update	Datetime	Date and time the record was last updated

Links to

Table	Join	Description
Inventory	Inventory_id	Foreign key reference to customer table
Customer	Customer_id	Foreign key reference to customer table
Staff	Staff_id	Foreign key reference to customer table

Linked from

Table	Join	Description
Payment	Rental_id	Foreign key reference to customer table

3. Dimension Tables

Name of Table		Columns	Data Type	Description
Film Category	🔑🔑	Film_id	Small Int	Unique ID for each film
	🔑🔑	Category_id	Small Int	Unique ID for category of film
		Last_update	Datetime	Date and time the record was last updated

Links to

Table	Join	Description
Category	Category_id	Foreign key reference to customer table
Film	Film_id	Foreign key reference to customer table

Linked from: None

Name of Table		Columns	Data Type	Description
Inventory	🔑	Inventory id	Serial	Unique ID for each film from inventory
	🔑	Film id	Small Int	Unique ID for each film
	🔑	Store id	Small Int	Unique ID for each store
		Last update	Datetime	Date and time the record was last updated.

Links to

Table	Join	Description
Film	Film_id	Foreign key reference to film table

Linked from

Table	Join	Description
Rental	Inventory_id	Foreign key reference to customer table

Name of Table	Columns	Data Type	Description
Store	Store_id	Serial	Unique ID for each store
	Manager_staff_id	Small Int	Unique ID for each manager of a store
	Address_id	Small Int	Unique store ID
	Last_update	Datetime	Date and time the record was last updated.

Links to

Table	Join	Description
Staff	Manager_staff_id	Foreign key reference to staff table
Address	Address_id	Foreign key reference to address table

Linked from: None

Name of Table	Columns	Data Type	Description
Film_actor	Actor_id	Small Int	Unique identifier of actor
	Film_id	Small Int	Unique identifier of film
	Last_update	Datetime	Date and time the record was last updated

Links to

Table	Join	Description
Actor	Actor_id	Foreign key reference to actor table
Film	Film_id	Foreign key reference to film table

Linked from: None

Name of Table		Columns	Data Type	Description
Customer	🔑	Customer_id	Small Int	Unique customer identifier
		Store_id	Small Int	Unique identifier of store
		First_name	Character Varying(45)	First name of customer
		Last_name	Character Varying(45)	Last name of customer
		Email	Character Varying(50)	Email address of customer
	🔑	Address_id	Small Int	Unique identifier of address
		Activebool	Boolean	Whether customer is active
		Create_date	Date	Date of customer profile creation
		Last_update	datetime	Date and time the record was last updated
		Active	Integer	Active status represented by 0 or 1

Links to

Table	Join	Description
Address	Address_id	Foreign key reference to address table

Linked from

Table	Join	Description
Payment	Customer_id	Foreign key reference to customer table
Rental	Customer_id	Foreign key reference to customer table

Name of Table		Columns	Data Type	Description
Staff	🔑	Staff_id	Serial	Unique identifier of staff member
		First_name	Character Varying(45)	First name of staff member
		Last_name	Character Varying(45)	Last name of staff member

		Address_id	Small Int	Unique identifier of address
		Email	Character Varying(50)	Email address of staff member
		Store_id	Small Int	Unique identifier of store
		Active	Boolean	Whether staff member is active
		username	Character Varying(16)	Staff member's username
		Password	Character Varying(40)	Staff member's password
		Last_update	Datetime	Date and time the record was last updated
		Picture	Bytea	Picture of staff member

Links to

Table	Join	Description
Address	Address_id	Foreign key reference to staff table

Linked from

Table	Join	Description
Store	Staff_id	Foreign key reference to store table
Payment	Staff_id	Foreign key reference to payment table

Name of Table		Columns	Data Type	Description
Actor		Actor id	Serial	Unique identifier of actor
		First name	Character Varying(45)	First name of actor
		Last_name	Character Varying(45)	Last name of actor
		Last_update	Datetime	Date and time the record was last updated

Links to: None

Linked from

Table	Join	Description
Film_actor	Actor_id	Foreign key reference to actor table

Name of Table		Columns	Data Type	Description
Film	🔑	Film_id	Serial	Unique identifier of film
		Title	Character Varying(255)	Title of film
		Description	Text	Description of film
		Release_year	Year	Year of film release
	🔑	Language_id	Small Int	Language of film
		Rental duration	Small Int	Duration of rental
		Rental rate	Numeric(4,2)	Rate of rental
		Length	Small Int	Length of film
		Replacement_cost	Numeric(5,2)	Replacement cost of film
		Rating	Mpaa_rating	Rating of film
		Last_update	Datetime	Date and time the record was last updated
		Special_features	Textl	Special features of film
		Fulltext	Tsvector	Film index; contains count of key words in description

Links to

Table	Join	Description
Language	Language_id	Foreign key reference to film table

Linked from

Table	Join	Description
Film_actor	Film_id	Foreign key reference to film_actor table
Inventory	Film_id	Foreign key reference to inventory table
Film_category	Film_id	Foreign key reference to film_category table

Name of Table		Columns	Data Type	Description
Category	🔑	Category_id	Serial	Unique identifier of category
		Name	Character Varying(25)	Name of category
		Last_update	Datetime	Date and time the record was last updated

Links to: None

Linked from

Table	Join	Description
Film_category	Category_id	Foreign key reference to film_category table

Name of Table		Columns	Data Type	Description
Address	🔑	Address_id	Serial	Unique identifier of address
		Address	Character Varying(50)	First line of address
		Address2	Character Varying(50)	Second line of address
		District	Character Varying(20)	District of address
	🔑	City_id	Small Int	Unique identifier of city
		Postal code	Character Varying(10)	Postal code associated with address
		Phone	Character Varying(20)	Phone number for address
		Last_update	Datetime	Date and time the record was last updated

Links to

Table	Join	Description
City	City_id	Foreign key reference to address table

Linked from

Table	Join	Description
Customer	Address_id	Foreign key reference to customer table
Staff	Address_id	Foreign key reference to staff table
Store	Address_id	Foreign key reference to store table

Name of Table		Columns	Data Type	Description
Language	🔑	Language_id	Serial	Unique identifier of language
		Name	Character Varying(20)	Name of language
		Last_update	Datetime	Date and time the record was last updated

Links to: None

Linked from

Table	Join	Description
Film	Language_id	Foreign key reference to film table

Name of Table		Columns	Data Type	Description
City	🔑	City_id	Serial	Unique identifier of city
		City	Character Varying(50)	Name of city
	🔑	Country_id	Small Int	Unique identifier of country
		Last_update	datetime	Date and time the record was last updated

Links to

Table	Join	Description
Country	Country_id	Foreign key reference to city table

Linked from

Table	Join	Description

	Address	city_id		Foreign key reference to city table

Name of Table		Columns	Data Type	Description
Country	🔑	Country_id	Serial	Unique identifier of country
		Country	Character Varying(50)	Name of country
		Last_update	Datetime	Date and time the record was last updated

Links to: None

Linked from

Table	Join	Description
City	Country_id	Foreign key reference to country table