

ROCKBUSTER DATABASE



Data Dictionary

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1. Actor Table

Description: Contains information about actors.

Columns:

Name	Data Type	Description / Attributes
actor_id	INTEGER	Primary key for Actor records. Auto-increment column
first_name	CHARACTER VARYING	First name of the actor
last_name	CHARACTER VARYING	Last name of the actor
last_update	TIMESTAMP	Date and time record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
film_actor	Actor.actor_id = Film_actor.actor_id	Foreign key constraint referencing Film_actor.actor_id

Linked from:

Table	Join	Title / Name / Description
film_actor	Film_actor.actor_id = Actor.actor_id	Foreign key constraint referencing Actor.actor_id

Unique keys:

Columns	Name / Description
actor_id	PK_Actor_Actor_id - Primary key (clustered) constraint

2. Address Table

Description: Contains address details.

Columns:

Name	Data Type	Description / Attributes
address_id	INTEGER	Primary key for Address records.
address	CHARACTER VARYING	First street address line
address2	CHARACTER VARYING	Second street address line
district	CHARACTER VARYING	Name of the district
city_id	SMALLINTEGER	Unique identification number for the city. Foreign key to City table
postal_code	CHARACTER VARYING	Postal code for the street address
phone	CHARACTER VARYING	Phone number for the address
last_update	TIMESTAMP	Date and time the record was last updated.

Links to:

Table	Join	Title / Name / Description
city	Address.city_id = City.city_id	Foreign key constraint referencing City.city_id

Linked from:

Table	Join	Title / Name / Description
customer	Customer.address_id = Address.address_id	Foreign key constraint referencing Address.address_id
staff	Staff.address_id = Address.address_id	Foreign key constraint referencing Address.address_id
store	Store.address_id = Address.address_id	Foreign key constraint referencing Address.address_id

Unique keys:

Columns	Name / Description
address_id	PK_Address_Address_id - Primary key (clustered) constraint

3. Category Table

Description: Contains film categories.

Columns:

Name	Data Type	Description / Attributes
category_id	INTEGER	Primary key for Category records.
name	CHARACTER VARYING	Name of the movie category
last_update	TIMESTAMP	Date and time the record was last updated.

Links to:

Table	Join	Title / Name / Description
film_category	Category.category_id = Film_category.category_id	Foreign key constraint referencing Film_category.category_id

Linked from:

Table	Join	Title / Name / Description
film_category	Film_category.category_id = Category.category_id	Foreign key constraint referencing Category.category_id

Unique keys:

Columns	Name / Description
category_id	PK_Category_Category_id - Primary key (clustered) constraint

4. City Table

Description: Contains city details.

Columns:

Name	Data Type	Description / Attributes
city_id	INTEGER	Primary key for City records. Auto-increment column
city	CHARACTER VARYING	Name of the city
country_id	SMALLINTEGER	Unique identification number for the country. Foreign key to Country table
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
country	City.country_id = Country.country_id	Foreign key constraint referencing Country.country_id

Linked from:

Table	Join	Title / Name / Description
address	Address.city_id = City.city_id	Foreign key constraint referencing City.city_id

Unique keys:

Columns	Name / Description
city_id	PK_City_City_id - Primary key (clustered) constraint

5. Country Table

Description: Contains country details.

Columns:

Name	Data Type	Description / Attributes
country_id	INTEGER	Primary key for Country records. Auto-increment column
country	CHARACTER VARYING	Name of the country
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Linked from:

Table	Join	Title / Name / Description
city	City.country_id = Country.country_id	Foreign key constraint referencing Country.country_id

Unique keys:

Columns	Name / Description
country_id	PK_Country_Country_id - Primary key (clustered) constraint

6. Customer Table

Description: Contains customer information.

Columns:

Name	Data Type	Description / Attributes
customer_id	INTEGER	Primary key for Customer records. Auto-increment column
store_id	SMALLINTEGER	Store identifier. Foreign key to Store table
first_name	CHARACTER VARYING	First name of the customer
last_name	CHARACTER VARYING	Last name of the customer
email	CHARACTER VARYING	Email address of the customer
address_id	SMALLINTEGER	Address identifier. Foreign key to Address table
activebool	BOOLEAN	Active status of the customer
create_date	DATE	Date the customer record was created
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()
active	INTEGER	Active status of the customer (1 for active, 0 for inactive)

Links to:

Table	Join	Title / Name / Description
address	Customer.address_id = Address.address_id	Foreign key constraint referencing Address.address_id
store	Customer.store_id = Store.store_id	Foreign key constraint referencing Store.store_id

Linked from:

Table	Join	Title / Name / Description
rental	Rental.customer_id = Customer.customer_id	Foreign key constraint referencing Customer.customer_id
payment	Payment.customer_id = Customer.customer_id	Foreign key constraint referencing Customer.customer_id

Unique keys:

Columns	Name / Description
customer_id	PK_Customer_Customer_id - Primary key (clustered) constraint

7. Film Table

Description: Contains film information.

Columns:

Name	Data Type	Description / Attributes
film_id	INTEGER	Primary key for Film records. Auto-increment column
title	CHARACTER VARYING	Title of the film
description	TEXT	Description of the film
release_year	INTEGER	Release year of the film
language_id	SMALLINTEGER	Language identifier. Foreign key to Language table
original_language_id	SMALLINTEGER	Original language identifier. Foreign key to Language table
rental_duration	SMALLINTEGER	Rental duration in days
rental_rate	NUMERIC (4,2)	Rental rate of the film
length	SMALLINTEGER	Length of the film in minutes
replacement_cost	NUMERIC (5,2)	Replacement cost of the film
rating	CHARACTER VARYING	Rating of the film (e.g., G, PG, PG-13, R, NC-17)
special_features	TEXT	Special features included with the film
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
language	Film.language_id = Language.language_id	Foreign key constraint referencing Language.language_id

Linked from:

Table	Join	Title / Name / Description
film_actor	Film_actor.film_id = Film.film_id	Foreign key constraint referencing Film.film_id
film_category	Film_category.film_id = Film.film_id	Foreign key constraint referencing Film.film_id
inventory	Inventory.film_id = Film.film_id	Foreign key constraint referencing Film.film_id

Unique keys:

Columns	Name / Description
film_id	PK_Film_Film_id - Primary key (clustered) constraint

8. Film Actor Table

Description: Links films and actors.

Columns:

Name	Data Type	Description / Attributes
actor_id	SMALLINTEGER	Actor identifier. Foreign key to Actor table
film_id	SMALLINTEGER	Film identifier. Foreign key to Film table
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
actor	Film_actor.actor_id = Actor.actor_id	Foreign key constraint referencing Actor.actor_id
film	Film_actor.film_id = Film.film_id	Foreign key constraint referencing Film.film_id

Unique keys:

Columns	Name / Description
actor_id,	PK_Film_Actor
film_id	Composite Primary key (clustered) constraint

9. Film Category Table

Description: Links films and categories.

Columns:

Name	Data Type	Description / Attributes
film_id	SMALLINTEGER	Film identifier. Foreign key to Film table
category_id	SMALLINTEGER	Category identifier. Foreign key to Category table
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
film	Film_category.film_id = Film.film_id	Foreign key constraint referencing Film.film_id
category	Film_category.category_id = Category.category_id	Foreign key constraint referencing Category.category_id

Unique keys:

Columns	Name / Description
film_id, category_id	PK_Film_Category - Composite Primary key (clustered) constraint

10. Inventory Table

Description: Contains information about film inventory.

Columns:

Name	Data Type	Description / Attributes
inventory_id	INTEGER	Primary key for Inventory records. Auto-increment column
film_id	SMALLINTEGER	Film identifier. Foreign key to Film table
store_id	SMALLINTEGER	Store identifier. Foreign key to Store table
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
film	Inventory.film_id = Film.film_id	Foreign key constraint referencing Film.film_id
store	Inventory.store_id = Store.store_id	Foreign key constraint referencing Store.store_id

Linked from:

Table	Join	Title / Name / Description
rental	Rental.inventory_id = Inventory.inventory_id	Foreign key constraint referencing Inventory.inventory_id

Unique keys:

Columns	Name / Description
inventory_id	PK_Inventory_Inventory_id - Primary key (clustered) constraint

11. Language Table

Description: Contains languages used in films.

Columns:

Name	Data Type	Description / Attributes
language_id	INTEGER	Primary key for Language records. Auto-increment column
name	CHARACTER VARYING	Name of the language
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Linked from:

Table	Join	Title / Name / Description
film	Film.language_id = Language.language_id	Foreign key constraint referencing Language.language_id

Unique keys:

Columns	Name / Description
language_id	PK_Language_Language_id - Primary key (clustered) constraint

12. Payment Table

Description: Contains payment information.

Columns:

Name	Data Type	Description / Attributes
payment_id	INTEGER	Primary key for Payment records. Auto-increment column
customer_id	SMALLINTEGER	Customer identifier. Foreign key to Customer table
staff_id	SMALLINTEGER	Staff identifier. Foreign key to Staff table
rental_id	INTEGER	Rental identifier. Foreign key to Rental table
amount	NUMERIC (5,2)	Payment amount
payment_date	TIMESTAMP	Date and time of the payment

Links to:

Table	Join	Title / Name / Description
customer	Payment.customer_id = Customer.customer_id	Foreign key constraint referencing Customer.customer_id
staff	Payment.staff_id = Staff.staff_id	Foreign key constraint referencing Staff.staff_id
rental	Payment.rental_id = Rental.rental_id	Foreign key constraint referencing Rental.rental_id

Unique keys:

Columns	Name / Description
payment_id	PK_Payment_Payment_id - Primary key (clustered) constraint

13. Rental Table

Description: Contains rental information.

Columns:

Name	Data Type	Description / Attributes
rental_id	INTEGER	Primary key for Rental records. Auto-increment column
rental_date	TIMESTAMP	Date and time of the rental
inventory_id	INTEGER	Inventory identifier. Foreign key to Inventory table
customer_id	SMALLINTEGER	Customer identifier. Foreign key to Customer table
return_date	TIMESTAMP	Date and time the rental was returned
staff_id	SMALLINTEGER	Staff identifier. Foreign key to Staff table
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
inventory	Rental.inventory_id = Inventory.inventory_id	Foreign key constraint referencing Inventory.inventory_id
customer	Rental.customer_id = Customer.customer_id	Foreign key constraint referencing Customer.customer_id
staff	Rental.staff_id = Staff.staff_id	Foreign key constraint referencing Staff.staff_id

Linked from:

Table	Join	Title / Name / Description
payment	Payment.rental_id = Rental.rental_id	Foreign key constraint referencing Rental.rental_id

Unique keys:

Columns	Name / Description
rental_id	PK_Rental_Rental_id - Primary key (clustered) constraint

14. Staff Table

Description: Contains staff information.

Columns:

Name	Data Type	Description / Attributes
staff_id	SMALLINTEGER	Primary key for Staff records. Auto-increment column
first_name	CHARACTER VARYING	First name of the staff
last_name	CHARACTER VARYING	Last name of the staff
address_id	SMALLINTEGER	Address identifier. Foreign key to Address table
email	CHARACTER VARYING	Email address of the staff
store_id	SMALLINTEGER	Store identifier. Foreign key to Store table
active	BOOLEAN	Active status of the staff
username	CHARACTER VARYING	Username for the staff
password	CHARACTER VARYING	Password for the staff
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
address	Staff.address_id = Address.address_id	Foreign key constraint referencing Address.address_id
store	Staff.store_id = Store.store_id	Foreign key constraint referencing Store.store_id

Linked from:

Table	Join	Title / Name / Description
payment	Payment.staff_id = Staff.staff_id	Foreign key constraint referencing Staff.staff_id
rental	Rental.staff_id = Staff.staff_id	Foreign key constraint referencing Staff.staff_id

Unique keys:

Columns	Name / Description
staff_id	PK_Staff_Staff_id - Primary key (clustered) constraint

15. Store Table

Description: Contains store information.

Columns:

Name	Data Type	Description / Attributes
store_id	SMALLINTEGER	Primary key for Store records. Auto-increment column
manager_staff_id	SMALLINTEGER	Staff identifier for the manager. Foreign key to Staff table
address_id	SMALLINTEGER	Address identifier. Foreign key to Address table
last_update	TIMESTAMP	Date and time the record was last updated. Default: now()

Links to:

Table	Join	Title / Name / Description
staff	Store.manager_staff_id = Staff.staff_id	Foreign key constraint referencing Staff.staff_id
address	Store.address_id = Address.address_id	Foreign key constraint referencing Address.address_id

Linked from:

Table	Join	Title / Name / Description
customer	Customer.store_id = Store.store_id	Foreign key constraint referencing Store.store_id

Unique keys:

Columns	Name / Description
store_id	PK_Store_Store_id - Primary key (clustered) constraint