

ROCKBUSTER DATA DICTIONARY



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Fact Tables

Table: payment

Primary key: [payment_id](#)

References (outgoing):

Customer_id > Customer Table

Staff_id > Staff Table

Rental_id > Rental Table

Referenced by (incoming): (none)

Column	Type	Explanation
payment_id	integer	Unique record identifier for payments.
customer_id	smallint	FK to the customer who paid.
staff_id	smallint	FK to the staff member who handled the payment.
rental_id	integer	FK linking the payment to a rental transaction.
amount	numeric	Payment value for the transaction.
payment_date	timestamp	Timestamp when the payment was recorded.

Table: rental

Primary key: [rental_id](#)

References (outgoing):

inventory_id > Inventory Table

customer_id > Customer Table

staff_id > Staff Table

Referenced by (incoming):

Payment Table (rental_id)

Column	Type	Explanation
rental_id	integer	Primary key for rental transactions.
rental_date	timestamp	When the rental started.
inventory_id	integer	FK to the specific inventory item (film copy).
customer_id	smallint	FK to the renting customer.
return_date	timestamp	When the item was returned (if applicable).
staff_id	smallint	FK to the staff member processing the rental.
last_update	timestamp	Record modification timestamp.

Dimensions Table

Table: inventory

Primary key: [inventory_id](#)

References (outgoing):

film_id > Film Table

store_id > Store Table

Referenced by (incoming):

rental_id (Inventory_id)

Column	Type	Explanation
inventory_id	integer	Unique identifier for each physical copy in stock.
film_id	smallint	FK to the film title this copy represents.
store_id	smallint	FK to the store holding the copy.
last_update	timestamp	Last time this inventory record was changed.

Table: actor

Primary key: [actor_id](#)

Referenced by (incoming):

Film actor Table (actor_id)

Column	Type	Explanation
actor_id	integer	Primary key for actors.
first_name	varchar(45)	Actor's given name.
last_name	varchar(45)	Actor's family name.

last_update	timestamp	Timestamp of last update to this actor record.
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Table: address
Primary key: [address_id](#)

References (outgoing):
city_id > City Table

Referenced by (incoming):
Customer Table (address_id)
Staff Table (address_id)
Store Table (address_id)

Column	Type	Explanation
address_id	integer	Primary identifier for address entries.
address	varchar(50)	Street address line 1.
address2	varchar(50)	Optional second address line.
district	varchar(20)	Sub-city area or district.
city_id	smallint	FK to the city table.
postal_code	varchar(10)	Postal or ZIP code.

phone	varchar(20)	Contact phone for this address.
last_update	timestamp	When the address entry was last modified.

Table: category
Primary key: [category_id](#)

Referenced by (incoming):
Film category Table (category_id)

Column	Type	Explanation
category_id	integer	Primary key for film categories.
name	varchar(25)	Category label (e.g., 'Comedy').
last_update	timestamp	Timestamp of most recent change.

Table: city

Primary key: [city_id](#)

References (outgoing):

country_id > Country Table

Referenced by (incoming):

Address Table (city_id)

Column	Type	Explanation
city_id	integer	Primary key for cities.
city	varchar(50)	City name.
country_id	smallint	FK to the country table.
last_update	timestamp	When this city record was last updated.

Table: country

Primary key: [country_id](#)

Referenced by (incoming):

City Table (country_id)

Column	Type	Explanation
country_id	integer	Primary key for countries.
country	varchar(50)	Country name.
last_update	timestamp	Record last-modified timestamp.

Table: customer

Primary key: [customer_id](#)

References (outgoing):

[address_id](#) > Address Table

[store_id](#) > Store Table

Referenced by (incoming):

Payment Table ([customer_id](#))

Rental Table ([customer_id](#))

Column	Type	Explanation
customer_id	integer	Primary customer identifier.
store_id	smallint	Store where the customer is registered.
first_name	varchar(45)	Customer's first name.
last_name	varchar(45)	Customer's last name.
email	varchar(50)	Contact email address.
address_id	smallint	FK to the customer's address.
activebool	boolean	Logical flag for active/inactive account.
create_date	date	Date the customer record was created.
last_update	timestamp	Last modification timestamp.
active	integer	Numeric flag historically used for activity state.

Table: film

Primary key: [film_id](#)

References (outgoing):

[language_id](#) > Language Table

Referenced by (incoming):

Inventory Table ([film_id](#))

Film actor Table ([film_id](#))

Film category Table ([film_id](#))

Column	Type	Explanation
film_id	integer	Primary key for films.
title	varchar(255)	Film title.
description	text	Plot synopsis or description.
release_year	integer	Year the film was released.
language_id	smallint	FK to the language used in the film.
rental_duration	smallint	Default number of rental days.
rental_rate	numeric	Rental charge per period.
length	smallint	Runtime in minutes.
replacement_cost	numeric	Charge to replace a lost or damaged copy.
rating	user-defined	Content rating (e.g., PG, R).
last_update	timestamp	Record update timestamp.
special_features	array	List of extras included with the film.
fulltext	tsvector	Search index for full-text queries.

Table: language

Primary key: [language_id](#)

Referenced by (incoming):

Film Table (language_id)

Column	Type	Explanation
language_id	integer	Primary key for languages.
name	char(20)	Language name.
last_update	timestamp	When this language record was updated.

Table: staff

Primary key: [staff_id](#)

References (outgoing):

[address_id](#) > Address Table

[store_id](#) > Store Table

Referenced by (incoming):

Rental Table ([staff_id](#))

Payment Table ([staff_id](#))

Store Table ([manager_staff_id](#))

Column	Type	Explanation
staff_id	integer	Primary staff identifier.
first_name	varchar(45)	Given name of staff member.
last_name	varchar(45)	Family name of staff member.
address_id	smallint	FK to address record.
email	varchar(50)	Staff contact email.
store_id	smallint	Store where the staff works.
active	boolean	Employment active flag.
username	varchar(16)	Login username.
password	varchar(40)	Stored password (legacy format).

last_update	timestamp	Timestamp of last update.
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Table: store
Primary key: [store_id](#)

References (outgoing):
address_id > Address Table
manager_staff_id > Staff Table

Referenced by (incoming):
Inventory Table (store_id)
Customer Table (store_id)
Staff Table (store_id)

Column	Type	Explanation
store_id	integer	Primary key for stores.
manager_staff_id	smallint	FK to the staff member managing the store.
address_id	smallint	FK to the store's address.
last_update	timestamp	When the store record was last updated.

Table: film_actor

Primary key: (film_id, actor_id)

References (outgoing):

film_id > Film Table

actor_id > Actor Table

Column	Type	Explanation
actor_id	smallint	FK to actor table.
film_id	smallint	FK to film table.
last_update	timestamp	Junction record's last modified timestamp.

Table: film category

Primary key: (film_id, category_id)

References (outgoing):

film_id > Film Table

category_id > Category Table

Column	Type	Explanation
film_id	smallint	FK to film table.
category_id	smallint	FK to category table.
last_update	timestamp	Timestamp for last change to this mapping.

Appendix: Notes & Conventions

- All timestamp fields are stored without time zone information unless otherwise noted.
- 'last_update' fields are included on most tables for change tracking.