

Data Dictionary for the GlobalFlix Rentals Database

Data Dictionary

1. Actor Table

Column Name	Data Type	Description
actor_id	SMALLINT (PK)	Unique identifier for each actor.
first_name	VARCHAR(45)	First name of the actor.
last_name	VARCHAR(45)	Last name of the actor.
last_update	TIMESTAMP	Last time the record was updated.

2. Address Table

Column Name	Data Type	Description
address_id	SMALLINT (PK)	Unique identifier for each address.
address	VARCHAR(50)	Street address.
address2	VARCHAR(50)	Secondary street address (optional).
district	VARCHAR(20)	District name.
city_id	SMALLINT (FK)	References the <code>city.city_id</code> column.
postal_code	VARCHAR(10)	Postal code.
phone	VARCHAR(20)	Contact phone number.
last_update	TIMESTAMP	Last time the record was updated.

3. Category Table

Column Name	Data Type	Description
category_id	TINYINT (PK)	Unique identifier for each category.
name	VARCHAR(25)	Name of the film category.
last_update	TIMESTAMP	Last time the record was updated.

4. City Table

Column Name	Data Type	Description
city_id	SMALLINT (PK)	Unique identifier for each city.
city	VARCHAR(50)	Name of the city.
country_id	SMALLINT (FK)	References the country.country_id column.
last_update	TIMESTAMP	Last time the record was updated.

5. Country Table

Column Name	Data Type	Description
country_id	SMALLINT (PK)	Unique identifier for each country.
country	VARCHAR(50)	Name of the country.
last_update	TIMESTAMP	Last time the record was updated.

6. Customer Table

Column Name	Data Type	Description
customer_id	SMALLINT (PK)	Unique identifier for each customer.
store_id	TINYINT (FK)	Store the customer is associated with.
first_name	VARCHAR(45)	Customer's first name.
last_name	VARCHAR(45)	Customer's last name.
email	VARCHAR(50)	Customer's email address.
address_id	SMALLINT (FK)	References the address.address_id column.
active	TINYINT	Whether the customer is active (1 = Yes).
create_date	DATETIME	Date the customer record was created.
last_update	TIMESTAMP	Last time the record was updated.

7. Film Table

Column Name	Data Type	Description
film_id	SMALLINT (PK)	Unique identifier for each film.
title	VARCHAR(255)	Title of the film.
description	TEXT	Short description of the film.
release_year	YEAR	Year the film was released.
language_id	TINYINT (FK)	Language of the film. References language.language_id.

Column Name	Data Type	Description
original_language_id	TINYINT (FK)	Original language of the film (if applicable).
rental_duration	TINYINT	How long the film can be rented (in days).
rental_rate	DECIMAL(4,2)	Rental price.
length	SMALLINT	Duration of the film in minutes.
replacement_cost	DECIMAL(5,2)	Cost to replace the film.
rating	ENUM	Film rating (e.g., 'G', 'PG', 'R').
special_features	SET	Special features (e.g., Deleted Scenes).
last_update	TIMESTAMP	Last time the record was updated.

8. Inventory Table

Column Name	Data Type	Description
inventory_id	MEDIUMINT (PK)	Unique identifier for each inventory item.
film_id	SMALLINT (FK)	References the <code>film.film_id</code> column.
store_id	TINYINT (FK)	References the <code>store.store_id</code> column.
last_update	TIMESTAMP	Last time the record was updated.

9. Language Table

Column Name	Data Type	Description
language_id	TINYINT (PK)	Unique identifier for each language.
name	CHAR(20)	Name of the language.
last_update	TIMESTAMP	Last time the record was updated.

10. Payment Table

Column Name	Data Type	Description
payment_id	INT (PK)	Unique identifier for each payment.
customer_id	SMALLINT (FK)	References the <code>customer.customer_id</code> column.
staff_id	TINYINT (FK)	References the <code>staff.staff_id</code> column.
rental_id	INT (FK)	References the <code>rental.rental_id</code> column.

Column Name	Data Type	Description
amount	DECIMAL(5,2)	Amount of the payment.
payment_date	DATETIME	Date and time of the payment.
last_update	TIMESTAMP	Last time the record was updated.

11. Rental Table

Column Name	Data Type	Description
rental_id	INT (PK)	Unique identifier for each rental.
rental_date	DATETIME	Date and time the rental took place.
inventory_id	MEDIUMINT (FK)	References the <code>inventory.inventory_id</code> column.
customer_id	SMALLINT (FK)	References the <code>customer.customer_id</code> column.
return_date	DATETIME	Date and time the rental was returned.
staff_id	TINYINT (FK)	References the <code>staff.staff_id</code> column.
last_update	TIMESTAMP	Last time the record was updated.

12. Staff Table

Column Name	Data Type	Description
staff_id	TINYINT (PK)	Unique identifier for each staff member.
first_name	VARCHAR(45)	First name of the staff member.
last_name	VARCHAR(45)	Last name of the staff member.
address_id	SMALLINT (FK)	References the <code>address.address_id</code> column.
email	VARCHAR(50)	Email address of the staff member.
store_id	TINYINT (FK)	References the <code>store.store_id</code> column.
active	TINYINT	Whether the staff member is active (1 = Yes).
username	VARCHAR(16)	Login username for the staff member.
password	VARCHAR(40)	Login password for the staff member (optional).
last_update	TIMESTAMP	Last time the record was updated.
picture	BLOB	Profile picture of the staff member (optional).

13. Store Table

Column Name	Data Type	Description
store_id	TINYINT (PK)	Unique identifier for each store.
manager_staff_id	TINYINT (FK)	References the <code>staff.staff_id</code> column for the store manager.
address_id	SMALLINT (FK)	References the <code>address.address_id</code> column.
last_update	TIMESTAMP	Last time the record was updated.

Notes

- PK = Primary Key - FK = Foreign Key