

Rockbuster Stealth LLC Data Dictionary

Lance Garcia

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Entity Relationship Diagram



Fact Tables

Payment Table

Key Type	Columns	Data Type	Description
Primary	payment_id	SERIAL	A unique ID for each payment
Foreign	customer_id	SMALLINT	A unique ID for each customer
Foreign	staff_id	SMALLINT	A unique ID for each staff member
Foreign	rental_id	INTEGER	A unique ID for each rental
	amount	NUMERIC(5,2)	Amount paid by the customer
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date the payment was made

Links to

Table	Join
customer	Payment.customer_id = customer.customer_id
rental	Payment.rental_id = rental.rental_id
staff	Payment.staff_id = staff.staff_id

Rental Table

Key Type	Columns	Data Type	Description
Primary	rental_id	SERIAL	A unique ID for each rental
	rental_date	TIMESTAMPS(6) WITHOUT TIME ZONE	The date the rental was made
Foreign	inventory_id	INTEGER	A unique ID for each inventory item
Foreign	customer_id	SMALLINT	A unique ID for each customer
	return_date	TIMESTAMPS(6) WITHOUT TIME ZONE	The date the return was made

Foreign	staff_id	SMALLINT	A unique ID for each staff member
	last_update	TIMESTAMPS(6) WITHOUT TIME ZONE	The date and time when the table was last updated

Links from

Table	Join
payment	Payment.rental_id = rental.rental_id

Links to

Table	Join
inventory	Rental.inventory_id = inventory.inventory_id
customer	Rental.customer_id = customer.customer_id
staff	Rental.staff_id = staff.staff_id

Dimension Tables

Store Table

Key Type	Column	Data Type	Description
Primary	store_id	SERIAL	A unique ID for each store
Foreign	manager_staff_id	SMALLINT	A unique ID for each staff manager
Foreign	address_id	SMALLINT	A unique ID for each address
	last_update	TIMESTAMPS(6) WITHOUT TIME ZONE	The date and time when the table was last updated

Links to

Table	Join
staff	Store.staff_id = staff.staff_id
address	Store.address_id = address.address_id

Film Actor Table

Key Type	Column	Data Type	Description
Composite (Primary and Foreign)	actor_id	SMALLINT	A unique ID for each actor
Composite (Primary and Foreign)	film_id	SMALLINT	A unique ID for each film
	last_update	TIMESTAMPS(6) WITHOUT TIME ZONE	The date and time when the table was last updated

Links to

Table	Join
actor	Film_actor.actor_id = actor.actor_id
film	Film_actor.film_id = film.film_id

Inventory Table

Key Type	Column	Data Type	Description
Primary	inventory_id	SERIAL	A unique ID for each inventory item
Foreign	film_id	SMALLINT	A unique ID for each film
	store_id	SMALLINT	A unique ID for each store
	last_update	TIMESTAMPS(6) WITHOUT TIME ZONE	The date and time when the table was last updated

Links from

Table	Join
rental	Rental.inverntory_id = inventory.inventory_id

Links to

Table	Join
film	Inventory.film_id = film.film_id

Film Category Table

Key Type	Column	Data Type	Description
Composite Key (primary and Foreign)	film_id	SMALLINT	A unique ID for each film
Composite Key (primary and Foreign)	category_id	SMALLINT	A unique ID for each category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the table was last updated

Links to

Table	Join
film	Film_category.film_id = film.film_id
category	Film_category.category_id = category.category_id

Customer Table

Key Type	Column	Data Type	Description
Primary	customer_id	SERIAL	A unique ID for each customer
	store_id	SMALLINT	A unique ID for each store
	first_name	CHARACTER VARYING(45)	The customers first name
	last_name	CHARACTER VARYING(45)	The customers last name
	email	CHARACTER VARYING(45)	The customers email address
Foreign	address_id	SMALLINT	A unique ID for each address of the customer
	activebool	BOOLEAN	Whether the customer is active or not
	create_date	DATE	Date the account was created

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the table was last updated
	active	INTEGER	Whether the customer is active or not

Links from

Table	Join
rental	Rental.customer_id = customer.customer_id

Links to

Table	Join
address	Customer.address_id = address.address_id

Staff Table

Key Type	Column	Data Type	Description
Primary	staff_id	SERIAL	A unique ID for each staff
	first_name	CHARACTER VARYING(45)	The staffs first name
	last_name	CHARACTER VARYING(45)	The staffs last name
Foreign	address_id	SMALLINT	A unique ID for each address of the staff
	email	CHARACTER VARYING(50)	The staffs email address
	store_id	SMALLINT	A unique ID for each store
	active	BOOLEAN	Whether or not the account is active
	username	CHARACTER VARYING(16)	The staffs account username
	password	CHARACTER VARYING(40)	The staffs account password
	last_update	TIMESTAMP(6)	The date and time when the table

		WITHOUT TIME ZONE	was last updated
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Links from

Table	Join
payment	Payment.staff_id = staff.staff_id

Links to

Table	Join
address	Staff.address_id = address.address_id

Actor Table

Key Type	Column	Data Type	Description
Primary	actor_id	SERIAL	A unique ID for each actor
	first_name	CHARACTER VARYING(45)	The actors first name
	last_name	CHARACTER VARYING(45)	The actors last name
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the table was last updated

Links from

Table	Join
film_actor	Film_actor.actor_id = actor.actor_id

Category Table

Key Type	Column	Data Type	Description
Primary	category_id	SERIAL	A unique ID for each category
	name	CHARACTER VARYING(45)	Category name
	last_update	TIMESTAMP(6)	The date and time when the table

		WITHOUT TIME ZONE	was last updated
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Links from

Table	Join
film_actor	Film_actor.film_id = film.film_id
inventory	Inventory.film_id = film.film_id
film_category	Film_category.film_id = film.film_id

Links to

Table	Join
language	Film.language_id = language.language_id

Film Table

Key Type	Column	Data Type	Description
	film_id	SERIAL	A unique ID for each film
	title	CHARACTER VARYING(255)	Film title
	description	TEXT	Film description
	release_year	YEAR	Film release year
	language_id	SMALLINT	Film language
	rental_duration	SMALLINT	Film rental duration
	rental_rate	NUMERIC(4,2)	Film rental rate
	length	SMALLINT	Film length
	replacement_cost	NUMERIC(5,2)	Cost of film replacement
	rating	MPAA RATING	Film rating
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the table was last updated

	special_feature	TEXT	Special film features
	fulltext	TSVECTOR	Film keywords

Links from

Table	Join
film_actor	Film_actor.film_id = film.film_id
inventory	Inventory.film_id = film.film_id
film_category	Film_category.film_id = film.film_id

Links to

Table	Join
language	Film.language_id = language.language_id

Address Table

Key Type	Column	Data Type	Description
Primary	address_id	SERIAL	A unique ID for each address
	address	CHARACTER VARYING(50)	Customer address
	address2	CHARACTER VARYING(50)	Second customer address if applicable
	district	CHARACTER VARYING(50)	Customer district
Foreign	city_id	SMALLINT	A unique ID for each city
	postal_code	CHARACTER VARYING(10)	Customer postal code
	phone	CHARACTER VARYING(20)	Customer phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the table was last updated

Links from

Table	Join
customer	Customer.address_id = address.address_id
staff	Staff.address_id = address.address_id
store	Store.address_id = address.address_id

Links to

Table	Join
city	Address.city_id = city.city_id

City Table

Key Type	Column	Data Type	Description
Primary	city_id	SERIAL	A unique ID for the city the customer lives in
	city	CHARACTER VARYING(50)	City the customer lives in
Foreign	country_id	SMALLINT	A unique ID for the country the customer lives in
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time when the table was last updated

Links to

Table	Join
country	City.country_id = country.country_id

Country Table

Key Type	Column	Data Type	Description
Primary	country_id	SMALLINT	A unique ID for the country the customer lives in
	country	CHARACTER VARYING(50)	Country the customer lives in
	last_update	TIMESTAMP(6)	The date and time when the table

		WITHOUT TIME ZONE	was last updated
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Links from

Table	Join
city	City.country = country.country_id