Rockbuster, LLC

SQL

Data Dictionary
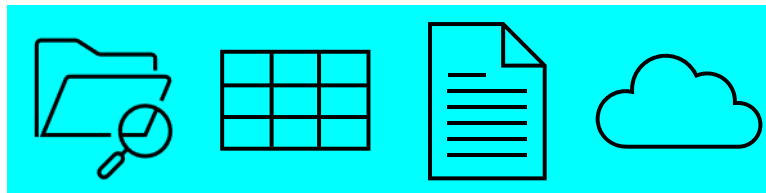
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Entity Relationships Diagram

Rental Table

Keys	Columns	Data Type	Description
Primary	rental_id	SERIAL	unique ID assigned to a film rental
	rental_date	TIMESTAMP (6) WITHOUT TIME ZONE	date of film rental
Foreign	inventory_id	INTEGER	unique ID assigned to inventory item
Foreign	customer_id	SMALLINT	unique ID assigned to a customer
	return_date	TIMESTAMP (6) WITHOUT TIME ZONE	date of a film return
Foreign	staff_id	SMALLINT	unique ID assigned staff/employee
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of rental

Links To:

Table	Links
Inventory	rental.inventory_id = inventory.inventory_id
Customer	rental.customer_id = customer.customer_id
Staff	rental.staff_id = staff.staff_id

Links From:

Table	Links
Payment	payment.rental_id = rental.rental_id

Payment Table

Keys	Columns	Data Type	Description
Primary	payment_id	SERIAL	unique ID assigned to a payment
Foreign	customer_id	SMALLINT	unique ID assigned to a customer
Foreign	staff_id	SMALLINT	unique ID assigned staff/employee
Foreign	rental_id	SERIAL	unique ID assigned to a film rental
	amount	NUMERIC (5,2)	amount of payment
	payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	date of payment

Links To:

Table	Links
Rental	payment.rental_id = rental.rental_id
Customer	payment.customer_id = customer.customer_id
Staff	payment.staff_id = staff.staff_id

Links From:
No Tables Linking From

Film Table

Keys	Columns	Data Type	Description
Primary	film_id	SERIAL	unique ID assigned to a film
	title	CHARACTER VARYING (255)	full name of film title
	description	TEXT	description of film
	release_year	year	year in which film was released
Foreign	language_id	SMALLINT	language of the film
	rental_duration	SMALLINT	# of days film rented
	rental_rate	NUMERIC(4,2)	price to rent film
	length	SMALLINT	the length of the film
	replacement_cost	NUMERIC(5,2)	cost to replace film
	rating	mpaa_rating	rating assigned to film given content
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of film record change
	special_features	TEXT	special features assigned to film
	fulltext	TSVECTOR	similar to description, representing key words

Links To:

Table	Links
Language	film.language_id = language.language_id

Links From:

Table	Links
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

Film Category

Keys	Columns	Data Type	Description
Primary & Foreign	film_id	SMALLINT	unique ID assigned to a film
Primary & Foreign	category_id	SMALLINT	unique ID assigned to a category
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of film record change

Links To:

Table	Links
Film	film_category. film_id = film.film_id
Category	film_category.category_id = category.category_id

Links From:
No Tables Linking From

Film Actor Table

Keys	Columns	Data Type	Description
Primary/Foreign	actor_id	SMALLINT	unique ID assigned to an actor
Primary/Foreign	film_id	SMALLINT	unique ID assigned to a film
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of a film actor record change

Links To:

Table	Links
Film	film_actor.film_id = film.film_id
Actor	film_actor.actor_id = actor.actor_id

Links From:
No Tables Linking From

Actor Table

Keys	Columns	Data Type	Description
Primary	actor_id	SERIAL	unique ID assigned to an actor
	first_name	CHARACTER VARYING (45)	full first name of actor
	last_name	CHARACTER VARYING (45)	full last name of actor
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of actor record change

Links To:
No Tables Linking To

Links From:

Table	Links
Film Actor	film_actor.actor_id = actor.actor_id

Language Table

Keys	Columns	Data Type	Description
Primary	language_id	SERIAL	unique ID assigned to a language
	name	CHARACTER(20)	full name of language
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of language record change

Links To:
No Tables Linking To

Links From:

Table	Links
Film	film.language_id = language.language_id

Inventory Table

Keys	Columns	Data Type	Description
Primary	inventory_id	SERIAL	unique ID assigned to an inventory item
Foreign	film_id	SMALLINT	unique ID assigned to a film
	store_id	SMALLINT	unique ID assigned to a store
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of inventory item record change

Links To:

Table	Links
Film	inventory.film_id = film.film_id

Links From:

Table	Links
Rental	rental.inventory_id = inventory.inventory_id

Category Table

Keys	Columns	Data Type	Description
Primary/Foreign	category_id	SERIAL	unique ID assigned to a category
	name	CHARACTER VARYING (25)	full name of a category
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of category record change

Links To:
No Tables Linking To

Links From:

Table	Links
Film Category	film_category.category_id = category.category_id

Customer Table

Keys	Columns	Data Type	Description
Primary	customer_id	SERIAL	unique ID assigned to a customer
Foreign	store_id	SMALLINT	unique ID assigned to a store
	first_name	CHARACTER VARYING (45)	customer first name
	last_name	CHARACTER VARYING (45)	customer last name
	email	CHARACTER VARYING (50)	customer email
Foreign	address_id	SMALLINT	unique ID assigned to a customer address
	activebool	BOOLEAN	logic built into retrieval of record (true)
	create_date	DATE	date of customer record creation
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of customer record change
	active	INTEGER	status of customer record (active/inactive)

Links To:

Table	Links
Address	customer.address_id = address.address_id

Links From:

Table	Links
Rental	rental.customer_id = customer.customer_id
Payment	payment.customer_id = customer.customer_id

Address Table

Keys	Columns	Data Type	Description
Primary	address_id	SERIAL	unique ID assigned to an address
	address	CHARACTER VARYING (50)	full name of an address
	address2	CHARACTER VARYING (50)	full name of an 2nd address
	district	CHARACTER VARYING (20)	full name of a district
Foreign	city_id	SMALLINT	unique ID assigned to a city
	postal_code	CHARACTER VARYING (10)	full name of a zip code
	phone	CHARACTER VARYING (20)	full name of phone number
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of address record change

Links To:

Table	Links
City	address.city_id = city.city_id

Links From:

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

City Table

Keys	Columns	Data Type	Description
Primary	city_id	SERIAL	unique ID assigned to a city
	city	CHARACTER VARYING (50)	full name of a city
Foreign	country_id	SMALLINT	unique ID assigned to a country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of a city record change

Links To:

Table	Links
Country	city.country_id = country.country_id

Links From:

Table	Links
Address	address.city_id = city.city_id

Country Table

Keys	Columns	Data Type	Description
Primary	country_id	SERIAL	unique ID assigned to a country
	country	CHARACTER VARYING (50)	full name of country
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of country record change

Links To:
No Tables Linking To

Links From:

Table	Links
City	city.country_id = country.country_id

Store Table

Keys	Columns	Data Type	Description
Primary	store_id	SERIAL	unique ID assigned to a store
Foreign	manager_staff_id	SMALLINT	unique ID assigned to a store manager/staff
Foreign	address_id	SMALLINT	unique ID assigned to a store address
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of store record change

Links From:
No Tables Linking From

Links To:

Table	Links
Staff	store.manager_staff_id = staff.staff_id
Address	store.address_id = address.address_id

Staff Table

Keys	Columns	Data Type	Description
Primary	staff_id	SERIAL	unique ID assigned staff/employee
	first_name	CHARACTER VARYING (45)	staff/employee first name
	last_name	CHARACTER VARYING (45)	staff/employee last name
Foreign	address_id	SMALLINT	unique ID assigned to a staff/employee address
	email	CHARACTER VARYING (50)	staff/employee email
	store_id	SMALLINT	unique ID assigned to a store
	active	BOOLEAN	logic built into retrieval of staff/employee record (true)
	username	CHARACTER VARYING (16)	staff/employee username
	password	CHARACTER VARYING (40)	staff/employee password
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	most recent date/time of staff record change
	picture	BYTEA	staff/employee picture

Links To:

Table	Links
Address	staff.address_id = address.address_id

Links From:

Table	Links
Rental	rental.staff_id = staff.staff_id
Payment	payment.staff_id = staff.staff_id
Store	store.manager_staff_id = staff.staff_id