Andrew Ruhnow Exercise 3.10 Data Dictionary Presenting SQL Results 12/13/2023

# Rockbuster

Data

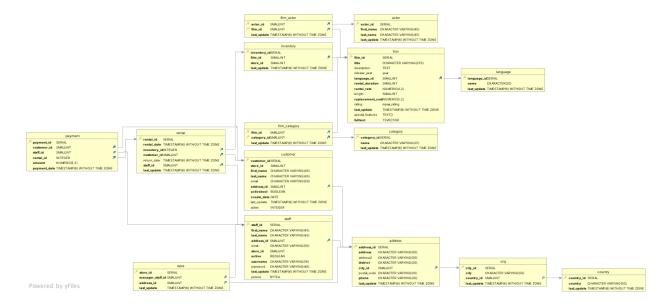
Dictionary



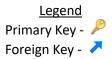
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# **Entity Relationship Diagram**



The Rockbuster ERD is a snowflake schema since the Rental fact table is linked to dimension tables then linked to sub dimension tables.



#### Fact Table:

#### **Rental Table**

	Columns	Data Type	Description
P	rental_id	Serial	Number assigned to
			transaction
	rental_date	Timestamp (6) without	Date of movie rental
		Time Zone	
<b>7</b>	inventory_id	Integer	Number assigned to
			movie
<b>7</b>	customer_id	Smallint	Number assigned to
			customer
	return_date	Timestamp (6) without	Date customer returned
		Time Zone	rental
<b>7</b>	staff_id	Smallint	Number assigned to
			staff
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated

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:**

# Payment

	Columns	Data Type	Description
	payment_id	Serial	Number assigned to
			payment transaction
7	customer_id	Smallint	Number assigned to
			customer
7	staff_id	Smallint	Number assigned to
			staff
<b>7</b>	rental_id	Integer	Number assigned to
			rental transaction
	amount	Numeric (5,2)	Amount for movie rental
	payment_date	Timestamp (6) without	Date of transaction
		Time Zone	

Links to table:	Join:
customer	payment.customer_id = customer.customer_id
staff	rental_customer_id = customer.customer_id
rental	payment.rental_id = rental.rental_id

#### Store

	Columns	Data Type	Description
P	store_id	Serial	Number assigned to
			Rockbuster store
7	manager_staff_id	Smallint	Number assigned to
			store manager
7	address_id	Smallint	Store address
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated

Links to table:	Join:
address	store.address_id = address.address_id
staff	store.address_id = staff.address_id

# Film\_Actor

	Columns	Data Type	Description
	actor_id	smallint	Number assigned to
<b>7</b>			actor
	film_id	smallint	Number assigned to film
7			
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated

Links to table:	Join:
actor	film_actor.actor_id = actor.actor_id
film	film_actor.film_id = film.film_id

# Inventory

	Columns	Data Type	Description
	inventory_id	serial	Number assigned to
			movie
7	film_id	smallint	Number assigned to film
	store_id	smallint	Number assigned to
			Rockbuster store
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated

Links to table:	Join:
film	inventory.film_id = film.film_id

Links from table:	Join:
rental	rental.inventory_id = inventory.inventory_id

Film\_Category

	Columns	Data Type	Description
<b>%</b> ×	film_id	Smallint	Number assigned to film
<i>&gt;</i>	category_id	Smallint	Movie genre id number
	last_update	Timestamp (6) without Time Zone	Date/time table was last updated

Links to table:	Join:	
category	film.category.category_id = category.category_id	
film	film.category.film_id = film.film_id	

# Customer

	Columns	Data Type	Description
	customer_id	Serial	Number assigned to
			customer
	store_id	smallint	Number assigned to
			Rockbuster store
	first_name	Character Varying (45)	Customers first name
	last_name	Character Varying (45)	Customers last name
	email	Character Varying (50)	Customer email address
7	address_id	smallint	Number assigned to
			customer address
	activebool	Boolean	Active: True or False
	create_date	Date	Date customer account
			added to database
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated
	active	Interger	Account active (1,0)

Links to table:	Join:
address	customer.address_id = address.address_id

Links from table:	Join:	
rental	rental.customer_id = customer.customer_id	
payment	payment.customer_id = customer.customer_id	

#### Staff

Columns	Data Type	Description
staff_id	Serial	Number assigned to
		staff
first_name	Character Varying (45)	Staff first name
last_name	Character Varying (45)	Staff last name

7	address_id	smallint	Number assigned to
			staff address
	email	Character Varying (50)	Staff email address
	store_id	smallint	Number assigned to
			Rockbuster store
	active	Boolean	Active: True or False
	username	Character Varying (16)	Staff username in
			system
	password	Character Varying (40)	Staff password in system
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated
	picture	Bytea	Staff picture

Links to table:	Join:	
address	staff.address_id = address.address_id	

Links from table:	Join:	
rental	rental.staff_id = staff.staff_id	
payment	payment.staff_id = staff.staff_id	
store	store.address_id = staff.address_id	

### Actor

	Columns	Data Type	Description
P	actor_id	smallint	Number assigned to
			actor
	first_name	Character Varying (45)	Actor first name
	last_name	Character Varying (45)	Actor last name
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated

Links from table:	Join:
film_actor	film_actor.actor_id = actor.actor_id

### Film

	Columns	Data Type	Description
P	film_id	Smallint	Number assigned to
			film
	title	Character Varying (255)	Title of movie
	description	Text	Description of movie
			rental
	release_year	year	Movie release date
7	language_id	Smallint	Number assigned to
			language in movie
			rental
	rental_duration	Smallint	Duration of movie
			rental

rental_rate	Numeric(4,2)	Price of movie rental
length	Smallint	Length of movie
replacement_cost	Numeric (5,2)	Cost to replace movie rental
rating	mpaa_rating	Movie rating
last_update	Timestamp (6) without	Date/time table was
	Time Zone	last updated
special_features	Text	Special features
		included in movie rental
fulltext	Tsvector	Keywords customers
		can search for film

Links to table:	Join:
language	film.language_id = language.language_id

Links from table:	Join:
film_actor	film_actor.film_id = film.film_id
film_category	film_category.film_id = film.film_id
inventory	inventory.film_id = film.film_id

Language

Columns	Data Type	Description
language_id	Serial	Number assigned to
		language
name	Character Varying (20)	Name of language
last_update	Timestamp (6) without	Date/time table was last
	Time Zone	updated

Links from table:	Join:
film	film.language_id = language.language_id

Category

Columns	Data Type	Description
customer_id	Serial	Number assigned to
		customer
name	Character Varying (25)	Name of genre
last_update	Timestamp (6) without	Date/time table was last
	Time Zone	updated

Links from table:	Join:
film_category	film_category.category_id = category.category_id

# Address

	Columns	Data Type	Description
P	address_id	Serial	Number assigned to
			address

	address	Character Varying (50)	Street address
	address2	Character Varying (50)	Street address continued
	district	Character Varying (20)	District address is
			located
7	city_id	Smallint	City address is located in
	postal_code	Character Varying (10)	address zip code
	phone	Character Varying (20)	Phone number to
			address
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated

Links to table:	Join:
city	address.city_id = city.city_id

Links from table:	Join:	
store	store.address_id = address.address_id	
customer	customer.address_id = address.address_id	
staff	staff.address_id = address.address_id	

# City

	Columns	Data Type	Description
P	city_id	Serial	Number assigned to city
	city	Character Varying (50)	Name of city
7	country_id	Smallint	Number assigned to
			country
	last_update	Timestamp (6) without	Date/time table was last
		Time Zone	updated

Links to table:	Join:
country	city.country_id = country.country_id

Links from table:	Join:	
address	address.city_id = city.city_id	

# Country

Columns	Data Type	Description
Country_id	Serial	Number assigned to
		country
Country	Character Varying (50)	Name of country
last_update	Timestamp (6) without	Date/time table was last
	Time Zone	updated

Links from table:	Join:	
city	city.country_id = country.country_id	