



Rockbuster Data Dictionary

CAREER FOUNDRY EXERCISE 3.10
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ROCKBUSTER STEALTH | Dallas, Texas

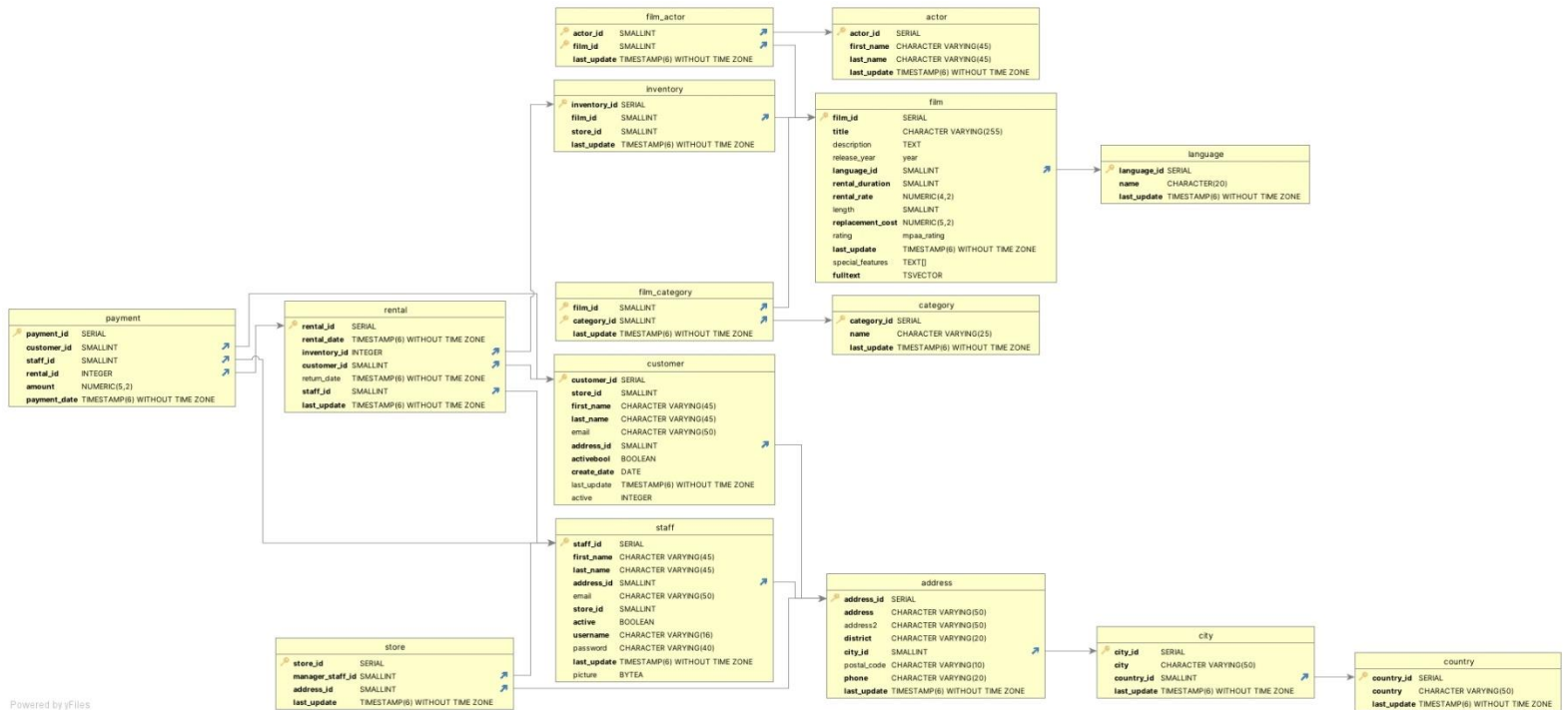


Table of Contents

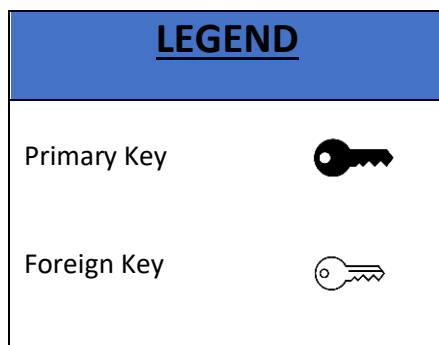
I. Main ERD Diagram	2
Description.....	2
Legend	2
II. Fact Tables	3
A. Payment	3
B. Rental	3
III. Dimension Tables.....	5
A.Store	5
B. Film Actor	5
C. Inventory	6
D. Film Category.....	7
E. Customer.....	7
F. Staff.....	8
G. Actor	9
H. Film	9
I. Category.....	11
J. Address.....	11
K. Language.	12
L. City	12
M. Country.....	13

I. Main ERD Design

Rockbuster Stealth Company's Entity Relationship Diagram







Rockbuster Stealth, a fictional company that provides online video rentals. This ERD for the Rockbuster data shows a snowflake schema because the Fact table shows subdimensions. Many dimensions stem from the Rental table but those tables also have sub dimensions connected from them. For example, the rental table builds onto payment but also has inventory as a sub dimension.



II. FACT TABLES



A. Payment



Unique Key	Columns	Data Type	Description
	Payment_id	Serial	Unique value for each payment record number
	Customer_id	SMALLINT	Unique value designated for specific customer with this order
	Staff_id	SMALLINT	Unique value designated to salesperson facilitating the payment
	Rental_id	Integer	Unique rental id for each rental
	Amount	Numeric	Number representing the Specific amount due
	Payment_date	TimeStamp(6) Without Time Zone	Timestamp value such as date and time without timezone information on which date the payment was paid

Links To

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

B. Rental

Unique Key	Columns	Data Type	Description
	Rental_id	Serial	Unique code for each rental event
	Rental_date	TimeStamp(6) Without Time Zone	Specific date and time that the rental took place
	Inventory_id	integer	Unique value representing the specific inventory item rented

	Customer_id	smallint	Unique value representing the specific customer id for each customer
	Return_date	TimeStamp(6) Without Time Zone	Date set for the rental to be returned
	Staff_id	smallint	Staff member unique code for a specific member
	Last_update	TimeStamp(6) Without Time Zone	Time and date of when the rental order was last updated

Links To




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

Links From

Table	Join
Payment	payment.rental_id = rental.rental_id

III. Dimension Tables

A. Store

Unique Key	Columns	Data Type	Description
	Store_id	Serial	Unique value attributed to store
	Manager_staff_id	smallint	Small integer value representing unique id for each manager
	Address_id	smallint	Small integer value representing unique code for address table
	Last_update	TimeStamp(6) Without Time Zone	Timestamp value such as date and time without timezone, shows last time entry was updated


Links To


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

Links From

Table	Join
Customer	customer.store_id= store.store_id
Staff	staff.store_id = store.store_id
Inventory	inventory.store_id = store.store_id

B. Film Actor



Unique Key	Columns	Data Type	Description
	Actor_id	Smallint	Specific code for the actor that acted in this film

	Film_id	Smallint	Code to specific film this actor worked in
	Last_update	TimeStamp(6) Without Time Zone	Time and date of when this film actor information was last updated

Links To

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

C. Inventory

Unique Keys	Columns	Data Type	Description
	Inventory_id	Serial	Unique code associated for each inventory item
	Film_id	SmallInt	Small integer unique code for the film
	Store_id	SmallInt	Small integer unique code for specific store
	Last_updated	TimeStamp(6) Without Time Zone	Time and date of when this inventory item was last updated



Links To

Table	Join
Film	Inventory.film_id = film.film_id
Store	Inventory.store_id = store.store_id

Links From

Table	Join
Rental	rental.inventory_id = inventory.inventory_id




D. Film_category

Unique Key	Columns	Data Type	Description
	Film_id	SmallInt	Unique code of specific film in this category
	Category_id	SmallInt	Unique category id
	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated

Links To

Table	Join
Film	film_category.film_id = film.film_id
Category	film_category.store_id = category.store_id

E. Customer

Unique Key	Columns	Data Type	Description
	Customer_id	serial	Unique customer code for this specific customer
	Store_id	smallint	Unique store id this customer account was made in
	First_name	Character Varying(45)	Char value for customer first name
	Last_name	Character Varying(45)	Char value for customer last name
	Email	Character Varying(45)	Char value for specific email address
	Address_id	smallint	Unique code for specific customer address
	activebool	boolean	Tru/false value if this customer is still active
	Create_date	Date	Date this entry was made

	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated
	active	Integer	Days this account has been active




Links To

Table	Join
Address	customer.address_id = address.address_id
Store	customer.store_id = store.store_id

Links From

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

F. Staff

Unique Key	Columns	Data Type	Description
	Staff_id	Serial	Unique code for specific staff worker id
	First_name	Character Varying(45)	Char for Workers first name
	Last_name	Character Varying(45)	Char for Workers last name
	Address_id	smallint	Unique address id
	Email	Character Varying(45)	Char values for Workers email
	Store_id	smallint	Unique code for specific store
	active	Boolean	True/false value if worker is still active employee
	Username	Character Varying(45)	Employee's inputted username for log in

	Password	Character Varying(45)	Employee's inputted password for their account log in
	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated
	picture	Bytea	File of employee picture


Links To

Table	Join
Address	staff.address_id = address.address_id

Links From

Table	Join
Payment	payment.staff_id = staff.staff_id
Store	store.manager_staff_id = staff.staff_id
Rental	customer.customer_id = rental.customer_id

G. Actor



Unique Key	Columns	Data Type	Description
	Actor_id	Serial	Unique code for each specific actor
	First_name	Character Varying(45)	Char for Actors first name
	Last_name	Character Varying(45)	Char for Actors last name
	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated

Links From

Table	Join
Film_Actor	film_actor.actor_id = actor.actor_id

H. Film

Unique Key	Columns	Data Type	Description
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	Film_id	Serial	Unique code for each specific movie
	title	Last_update	TimeStamp(6) Without Time Zone
	description	Text	String value for Description of movie
	Release_year	Year	Year movie was released in
	Language_id	Small Int	Unique code to specific language available for each film
	Rental_duration	Small Int	Length each rental order can be held for by customer
	Rental_rate	Numeric(4,2)	Cost per rental
	Length	length	Number representing length of film
	Replacement_cost	Numeric(5,2)	Cost to replace each inventory film item
	Rating	Mpaa_rating	Movie rating
	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated
	Special_features	text	Text describing special features of the movie
	fulltext	TSVector	Text document, used for searching, may contain information related to the film to help search results


Links To

Table	Join
Language	film.language_id = language.language_id

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



I. Category

Unique Key	Columns	Data Type	Description
	Category_id	Serial	Unique code associated with each specific category of film
	name	Character Varying(45)	Name of specific category
	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated

Links From

Table	Join
Film_Category	film_category.category_id = category.category_id

J. Address

Unique Key	Columns	Data Type	Description
	Address_id	serial	Unique
	address	Character Varying(50)	Description of address
	Address2	Character Varying(50)	If entity holds a secondary address
	district	Character Varying(50)	District or county
	City_id	SmallInt	Unique id of specific city
	Postal_code	Character Varying(50)	Number referencing postal code
	phone	Character Varying(50)	Phone number information
	Last_update	TimeStamp(6) Without Time	Time and date from when this entry was last updated


Links To

Table	Join
City	address.city_id = city.city_id

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



K. Language

Unique Key	Columns	Data Type	Description
	Language_id	serial	Specific language id code for each language
	name	Character Varying(20)	Char type describing language name
	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated

Links From

Table	Join
Film	film.language_id = language.language_id

L. City

Unique Key	Columns	Data Type	Description
	City_id	serial	Unique city id for each specific city
	city	Character Varying(50)	City description, name of city
	Country_id	SmallInt	Specific country code belonging to each city
	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated


Links To

Table	Join
Country	city.country_id = country.country_id

Links From

Table	Join
Country	country.country_id = city.country_id
Address	address.city_id = city.city_id

M. Country

Unique Key	Columns	Data Type	Description
	Country_id	Serial	Unique code id associated with specific country
	country	Character Varying(20)	String description of the country
	Last_update	TimeStamp(6) Without Time Zone	Time and date from when this entry was last updated

Links From

Table	Join
City	city.country_id = country.country_id