A dark blue vertical bar runs down the left side of the page. A blue arrow points to the right from this bar, containing the date.

2/8/2024

Rock Buster Stealth LLC

Data Dictionary

Several thin, curved lines in shades of blue and grey sweep upwards from the bottom left corner of the page.

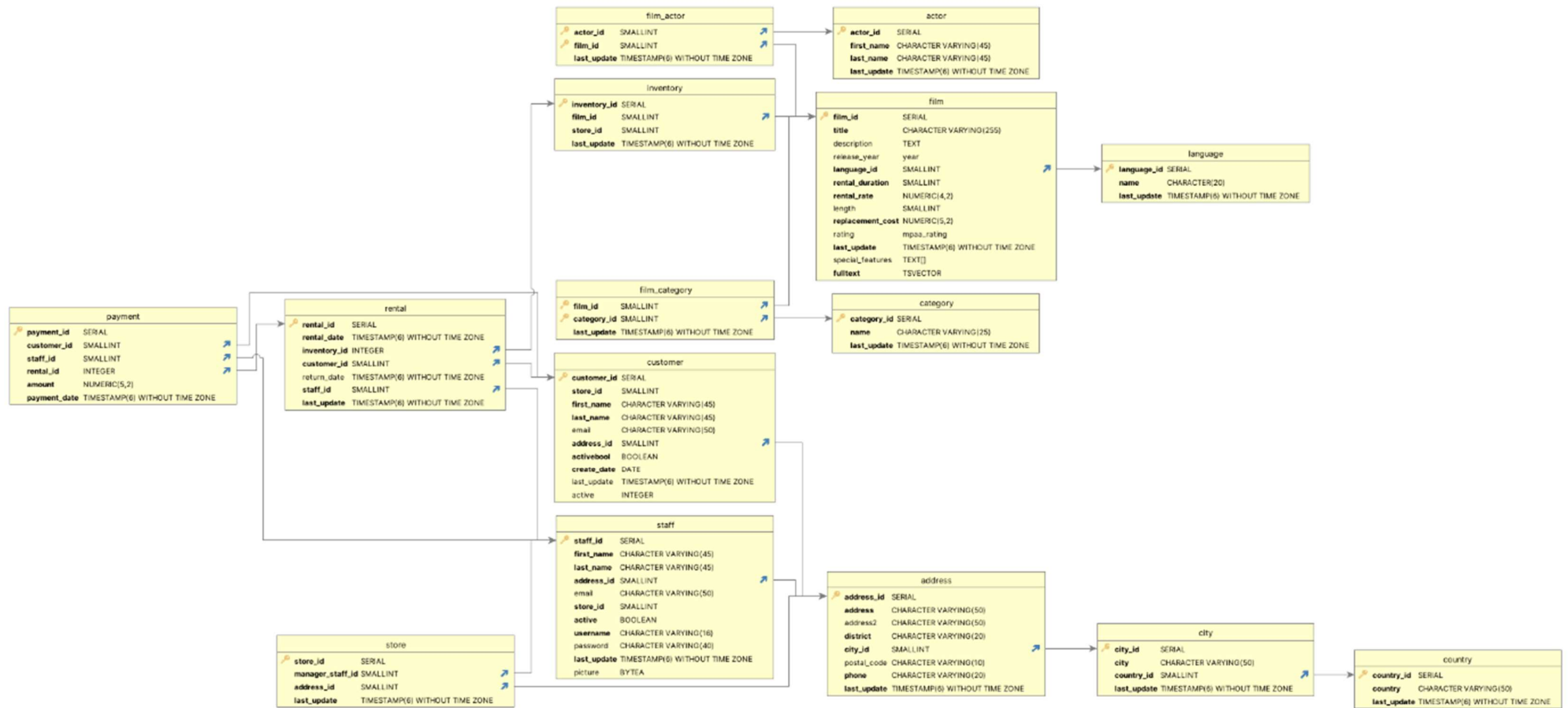
Graham Field

CAREER FOUNDRY TASK 3.10

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Entity Relationship Diagram



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This is a snowflake Schema as there are dimensions that start in the middle and spread outward leading into sub dimensions Address leading to city leading to Country.




Legend

	Primary Key		Links To
	Foreign Key		Links From





Fact Tables




Payment


Key	Column	Data Type	Description
	payment_id	Serial	Unique id number for payment
	customer_id	SMALLINT	Unique id for customer
	staff_id	SMALLINT	Unique id for staff member
	Rental_id	INTEGER	Unique id for a rental
	Amount	NUMERIC(5,2)	Total value of the rental
	Payment_date	TIME STAMP(6) WITHOUT TIME ZONE	Date the payment was made

Key	Table	Join
	Rental	Payment.rental_id=rental.rental_id
	customer	payment.customer_id=customer.customer_id
	staff	payment.staff_id=staff.staff_id

Rental




Key	Column	Data Type	Description
	Rental_id	SERIAL	Unique id for a rental
	Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date Rental was made
	Inventory_id	INTEGER	Unique number for inventory item
	Customer_id	SMALLINT	Unique id for customer
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date rental was returned
	Staff_id	SMALLINT	Unique id for staff member
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time data was updated



Key	Table	Join
	inventory	rental.inventory_id=rental.rental_id
	customer	rental.customer_id=customer.customer_id
	staff	rental.staff_id=staff.staff_id

Key	Table	Join
	payment	payment.rental_id=rental.rental_id



Dimensions Tables


Store




Key	Column	Data Type	Description
	Store_id	SERIAL	Unique id for the store
	Manager_staff_id	SMALLINT	Unique id for the staff manager
	Adress_id	SMALLINT	Unique id for the store location
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last time data was updated

Key	Table	Join
	address	store.address_id=address.address_id
	staff	store.staff_id=staff.staff_id



Staff


Key	Column	Data Type	Description
	staff_id	SERIAL	Unique id for staff member
	first_name	CHARACTER VARYING(45)	Staff members first name
	last_name	CHARACTER VARYING(45)	Staff memebrs last name
	adress_id	SMALLINT	Staff members adress
	email	CHARACTER VARYING(50)	Staff members email adress
	store_id	SMALLINT	Unique id of the store where the staff member works
	active	BOOLEAN	Active true or false
	Username	CHARACTER VARYING(16)	Staff members username
	Password	CHARACTER VARYING(40)	Staff members password
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Last time the staff memebrs information was updated
	picture	BYTEA	Picture of the staff memebr


Key	Table	Join
	address	staff.address_id=address.address_id



Key	Table	Join
	rental	rental.staff_id=staff.staff_id
	store	store.manager_staff_id=staff.staff_id
	payment	payment.staff_id=staff.staff_id

Customer



Key	Column	Data Type	Description
	Customer_id	SERIAL	Unique customer id
	Store_id	SMALLINT	Loaction customer has an account at


	First_name	CHARACTER VARYING(45)	Customers first name
	Last_name	CHARACTER VARYING(45)	Customers last name
	Email	CHARACTER VARYING(50)	Customers email address
	Adress_id	SMALLINT	Customers physical address
	Activebool	BOOLEAN	Active true or false
	Create_date	DATE	Date the customers profile was created
	Last_update	TIMESTAMP(6) WITHOPUT TIME_ZONE	When was the last time the customers profile was updated
	active	INTEGER	Is the customers account still active




Key	Table	Join
	address	customer.address_id=address.address_id

Key	Table	Join
	rental	rental.customer_id=customer.customer_id
	payment	payment.customer_id=customer.customer_id

Address



Key	Column	Data Type	Description
	Address_id	SERIAL	Unique id for Physical address
	Address	CHARACTER VARYING(50)	Address details
	Address2	CHARACTER VARYING(50)	Adress details (aditional)
	District	CHARACTER VARYING(20)	Name of the district
	City_id	SMALLINT	Unique id for the city
	Postal_code	CHARACTER VARYING(10)	Postal code of an address
	Phone	CHARACTER VARYING(20)	Phone number for an address
	Last_update	TIMESTAMP(6) WITHOPUT TIME_ZONE	Last time the data was updated for an address


Key	Table	Join
	city	address.city_id=city.city_id


Key	Table	Join
	store	store.address_id=address.address_id
	staff	staff.address_id=address.address_id
	customer	customer.address_id=address.address_id

City


Key	Column	Data Type	Description
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	City_id	SERIAL	Unique id of the city
	City	CHARACTER VARYING(50)	Name of the city
	Country_id	SMALLINT	Name of the country the city is in
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Lastime the city information was updated

Key	Table	Join
	country	city.country_id=country.country_id



Key	Table	Join
	address	address.city_id=city.city_id


Country




Key	Column	Data Type	Description
	Country_id	Serial	Unique id number for the country
	Country	CHARACTER VARYING(50)	Name of the country
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Last time the countires information was updated

Key	Table	Join
	city	city.country_id=country.country_id



Film



Key	Column	Data Type	Description
	Film_id	SERIAL	Unique film id
	Title	CHARACTER VARYING(255)	Name of the film
	Description	TEXT	Description of the film
	Release_year	Year	Year the film was released
	Language_id	SMALLINT	Language that the film is in
	Rental_duration	SMALLINT	How long the movie has been rented for
	Rental_rate	NUMRICA(4.2)	The rating the customers give the movie
	Length	SMALLINT	Length of the film
	Replacement_cost	NUMERICA(5.2)	Cost to replace a physcal copy of the film
	Rating	Mpaa_rating	Age restriction and attribute (violence, nudity etc)
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Last time information of the the film details was updated
	Special_features	TEXT[]	Special features of the movie
	fulltext	TSVECTOR	Text or subtitles of the movie

Key	Table	Join
	language	film.language_id=language.language_id


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


Film category

Key	Column	Data Type	Description
	Film_id	SMALLINT	Unique film id
	Category_id	SMALLINT	The category of the film
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Last time the film category was updaetd


Key	Table	Join
	film	film_category.film_id=film.film_id
	category	film_category.category_id=category.category_id


Category

Key	Column	Data Type	Description
	Category_id	SERIAL	Unique id for the category of movie
	Name	CHARACTER VARYING(25)	Name if the category
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Last time the film catgory was updated



Key	Table	Join
	Film_category	film_category.category_id=category.category_id

Language



Key	Column	Data Type	Description
	Language_serial	SERIAL	
	Name	CHARACTER(20)	
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	

Key	Table	Join
	film	film.language_id=language.language_id


Film actor


Key	Column	Data Type	Description
	Actor_id	SMALLINT	Unique id of actor
	Film_id	SMALLINT	Unique id of film
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Lastime actors data was updated

Key	Table	Join
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	actor	film_actor.actor_id=actor.actor_id
	film	film_actor.film_id=film.film_id


Actor


Key	Column	Data Type	Description
	Actor_id	SERIAL	Unique id of the actor
	First_name	CHARACTER VARYING (45)	Actors first name
	Last_name	CHARACTER VARYING (45)	Actors last name
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Lat time the actors information was updated

Key	Table	Join
	Film_actor	film_actor.actor_id=actor.actor_id

Inventory

Key	Column	Data Type	Description
	Inventory_id	SERIAL	Unique inventory id
	Film-id	SMALLINT	Unique film id
	Store_id	SMALLINT	Unique store id
	Last_update	TIMESTAMP(6) WITHOPUT TIME ZONE	Lastime the inventory data was updated

Key	Table	Join
	film	inventory.film_id=film.film_id

Key	Table	Join
	rental	rental.inventory_id=inventory.inventory_id