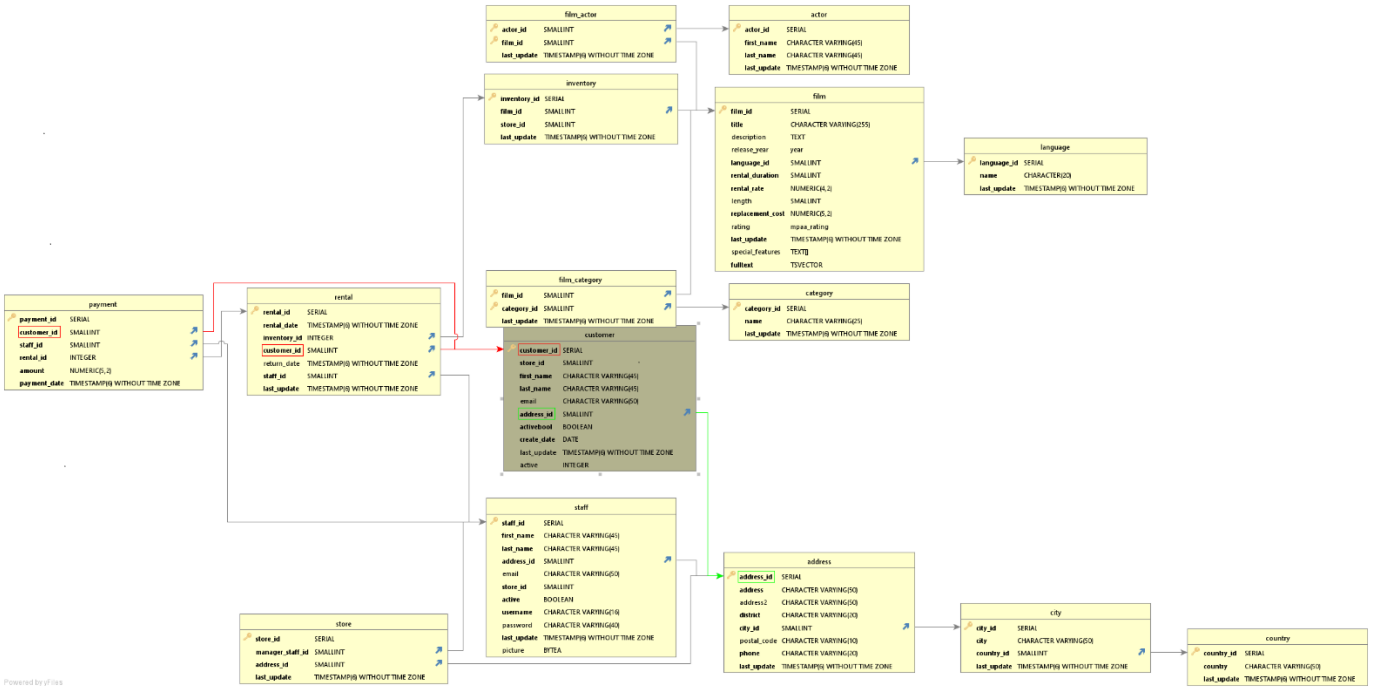

3) **Take a moment to examine your ERD. Does the Rockbuster database have a snowflake schema or a star schema? Write a brief explanation for your answer.**

The data base has a snowflake schema because the tables branch off from each other multiple times and subtables lead to other subtables.

List all the fact tables and all the dimension tables in the schema. For each table, list every column and its data type, and write a brief description of the column. To get an idea of what this should look like, check out these example fact and dimension tables.

Fact Tables:

rental		
Columns	**Data Type**	**Description**
rental_id	SERIAL	Primary key for Rental
rental_date	TIMESTAMP[6] WITHOUT TIME ZONE	Date of Rental
inventory_id	INTEGER	Indentity increment for inventory
customer_id	SMALLINT	Indentity increment for customer
return_date	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of return
staff_id	SMALLINT	Indentity increment for staff
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Time table last updated

Dimension Tables

payment		
Columns	**Data Type**	**Description**
Payment_id	SERIAL	Primary Key for Payment Records. Identity increment for payment
customer_id	SMALLINT	Identity Increment for customers
staff_id	SMALLINT	Identity Increment for staff
rental_id	INTEGER	Identity Increment for rental
amount	NUMERIC[5,2]	Amount paid for rental. No more than 5 digits before decimal and digits afterwards
payment_date	TIMESTAMP[6] WITHOUT TIME ZONE	Date of payment

rental		
Columns	**Data Type**	**Description**
rental_id	SERIAL	Primary key for Rental
rental_date	TIMESTAMP[6] WITHOUT TIME ZONE	Date of Rental
inventory_id	INTEGER	Indentity increment for inventory
customer_id	SMALLINT	Indentity increment for customer
return_date	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of return
staff_id	SMALLINT	Indentity increment for staff
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Time table last updated

store		
Columns	**Data Type**	**Description**
store_id	SERIAL	Primary Key for store. Indentity increment for store name
manager_staff_id	SMALLINT	Indentity increment for store manager and staff
address_id	SMALLINT	Indentity increment for store's address

last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Time table last updated
inventory		
Columns	**Data Type**	**Description**
inventory_id	SERIAL	Primary key for inventory. Identity increment for inventory
film_id	SMALLINT	Identity increment for film
store_id	SMALLINT	Identity increment for store
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Time table last updated
film_category		
Columns	**Data Type**	**Description**
film_id	SMALLINT	Identity Increment for Film. Primary key for film Category
category_id	SMALLINT	Identity Increment for category
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Time table last updated
customer		
Columns	**Data Type**	**Description**
customer_id	SERIAL	Primary key for customer info. Identity increment for customer
store_id	SMALLINT	Identity increment for store
first_name	CHARACTER VARYING[45]	Customer's first name
last_name	CHARACTER VARYING[45]	Customer's last name
email	CHARACTER VARYING[45]	Customer's email address
address_id	SMALLINT	Identity increment for store address
activebool	BOOLEAN	True or False confirming whether customer active or not in system
create_date	DATE	date customer info created
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	date table last updated
activebool	INTEGER	0 or 1 integer for whether customer is active or not

staff		
Columns	**Data Type**	**Description**
staff_id	SERIAL	Primary key for staff records. Identity increment for staff
first_name	CHARACTER VARYING[45]	Staff's last name
last_name	CHARACTER VARYING[45]	Staff's last name
address_id	SMALLINT	Identity increment for Staff's address
email	CHARACTER VARYING[50]	Email address for staff
store_id	SMALLINT	Identity increment for store
active	BOOLEAN	True or False confirming whether staff active or not in system
username	CHARACTER VARYING[16]	Staff username
password	CHARACTER VARYING[40]	Staff password
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of last table update
picture	BYTEA	Staff picture
actor		
Columns	**Data Type**	**Description**
actor_id	SERIAL	Primary key for actor records. Identity increment for actor
first_name	CHARACTER VARYING[45]	First name of actor
last_name	CHARACTER VARYING[45]	Last name of actor
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of last table update
film		
Columns	**Data Type**	**Description**
film_id	SERIAL	Primary key for film titles. Indentity increment for film title
title	CHARACTER VARYING[255]	Film title
description	TEXT	Description of film
release_year	YEAR	Year of film's release

language_id	SMALLINT	Indentity increment for film's language
rental_duration	SMALLINT	Length of time rental is out
rental_rate	NUMERIC[4,2]	Price of rental
length	SMALLINT	film runtime
replacement_cost	NUMERIC[5,2]	Cost to replace copy of film
rating	MPAA_RATING	Rating of film
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of last table update
special_features	TEXT	Special Features of film
fulltext	TSVECTOR	Full text description of film
category		
Columns	**Data Type**	**Description**
category_id	SERIAL	Primary key for category records. Identity increment for category
name	CHARACTER VARYING [25]	Name of category
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of last table update
address		
Columns	**Data Type**	**Description**
address_id	SERIAL	Primary key for address. ID increment for address
address	CHARACTER VARYING [50]	Store address
address2	CHARACTER VARYING [50]	second line of store address (if necessary)
district	CHARACTER VARYING [20]	district of store
city_id	SMALLINT	City ID number
postal_code	CHARACTER VARYING [10]	Postal code of store
phone	CHARACTER VARYING [20]	Phone number of store
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of last table update

language		
Columns	**Data Type**	**Description**
language_id	SERIAL	Primary key for language. ID increment for language
name	CHARACTER[20]	Name of language
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of last table update
city		
Columns	**Data Type**	**Description**
city_id	SERIAL	Primary Key for city. ID increment for city
city	CHARACTER VARYING[50]	City name
country_id	SMALLINT	ID increment for country
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of last table update
country		
Columns	**Data Type**	**Description**
country_id	SERIAL	Primary key for country. ID increment for country
country	CHARACTER VARYING[50]	Country name
last_update	TIMESTAMP[6] WITHOUT TIME ZONE	Timestamp of last table update

4) **Which actors brought Rockbuster the most revenue?**

I would need the film_actor, actor, payment, rental, and film tables

What language are the majority of movies in the collection?

I would need the film and language tables