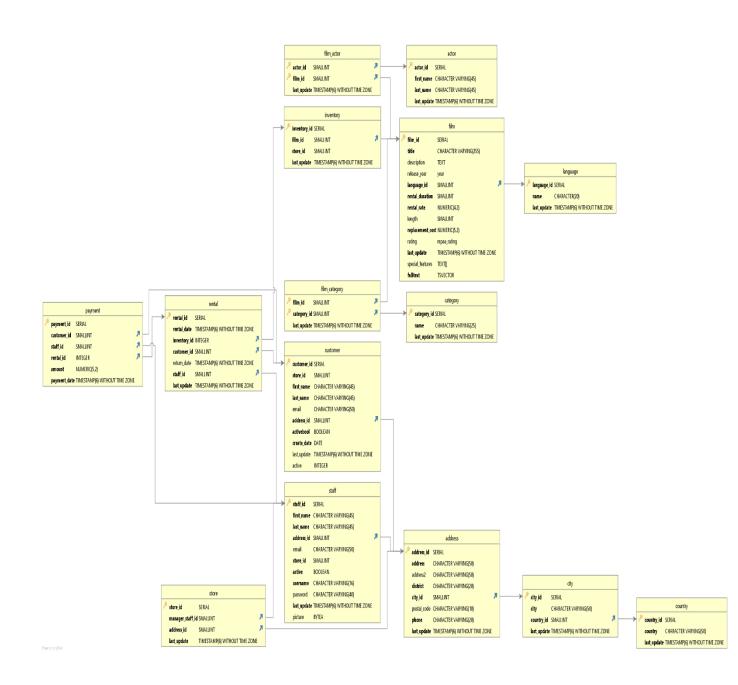
TASK 3.2

Step 1&2



The Entity relationship diagram (ERD) has a snowflake schema because it has so many sub-dimensions.

Steps 3

Facts Tables

PAYMENT			
Columns	Data Type	Description	
payment_id	SERIAL	Number assigned to payment	
customer_id	SMALLINT	Number assigned to rental	
staff_id	SMALLINT	Number assigned to rental	
rental_	INTEGER	Number assigned to rental	
amount	NUMERIC(5,2)	amount of payment	
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of payment last updated	

FILM_ACTOR		
Columns	Data Type	Description
actor_id	SMALLINT	Number assigned to actor
film_id	SMALLINT	Number assigned to film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of actor last updated

FILM_CATEGORY			
Columns	Data Type	Description	
film_id	SERIAL	Number assigned to film	
category_id	SMALLINT	Number assigned to category	
last_update	SERIAL	Date of film last updated	

STORE			
Columns	Data Type	Description	
store_id	SERIAL	Number assigned to store	
manager_staff_id	SMALLINT	Number assigned to manager	
address_id	SMALLINT	Number assigned to address	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of store last updated	

Dimension Tables

RENTAL		
Columns	Data Type	Description
Rental_id	SERIAL	Number assigned to rental
Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental last updated
Inventory_id	INTEGER	Number assigned to inventory
Customer_id	SMALLINT	Number assigned to customer
Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date of return last updated
Staff_id	SMALLINT	Number assigned to staff
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of rental last updated

CUSTOMER		
Columns	Data Type	Description
Customer_id	SERIAL	Number assigned to customer
Store_id	SMALLINT	Number assigned to store
First_name	CHARACTER VARYING(45)	Name assigned to the customer
Last_name	CHARACTER VARYING(45)	Name assigned to customer
Email	CHARACTER VARYING(45)	Email assigned to language
Address_id	SMALLINT	Address assigned to address
Activebool	BOOLEAN	If customer is active?
Create_date	DATE	Date entry created
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of customer last updated
active	INTEGER	Is customer active?

ADDRESS			
Columns	Data Type	Description	
address_id	SERIAL	Number assigned to address	
address	CHARACTER VARYING(50)	Street address	
Address2	CHARACTER VARYING(50)	Second street address	
District	CHARACTER VARYING(20)	Address district	

City_id	SMALLINT	Address city
Postal_code	CHARACTER	Address postal code
	VARYING(10)	
"		Phone number of staff
	VARYING(20)	
	TIMESTAMP(6)	
- '	WITHOUT TIME ZONE	Date of address of staff last updated

STAFF		
Columns	Data Type	Description
staff_id	SERIAL	Number assigned to staff
First_name	CHARACTER VARYING(45)	Name of the staff
Last_name	CHARACTER VARYING(45)	Name of the staff
Address_id	SMALLINT	Staff's address
Email	CHARACTER VARYING(50)	Staff's email
Store_id	SMALLINT	Number assigned to store
Active	BOOLEAN	If staff is active?
Username	CHARACTER VARYING(40)	Staff's username
password	CHARACTER VARYING(40)	Staff's password
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of staff's last updated
Picture	ВҮТЕА	Staff's picture

CITY		
Columns	Data Type	Description
city_id	SERIAL	Number assigned to city
city	CHARACTER VARYING(50)	Name of city
Country_id	SMALLINT	Name of country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of city last updated

COUNTRY		
Columns	Data Type	Description
country_id	SERIAL	Number assigned to country
Country	CHARACTER VARYING(50)	Name of country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of country last updated

INVENTORY		
Columns	Data Type	Description
inventory_id	SERIAL	Number assigned to Inventory
Film_id	SMALLINT	Number assigned to film
Store_id	SMALLINT	Number assigned to store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of inventory last updated

ACTOR				
Columns	Data Type	Description		
actor_id	SERIAL	Number assigned to actor		
First_name	CHARACTER VARYING(45)	Actor's first name		
Last_name	CHARACTER VARYING(45)	Actor's last name		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of actor last updated		

FILM		
Columns	Data Type	Description
film_id	SERIAL	Number assigned to film
title	CHARACTER	Title of film
	VARYING(255)	
description	TEXT	Description of film
Release_year	Year	Release year of film
Language_id	SMALLINT	Number assigned to film
Rental_duration	SMALLINT	Rental duration of film
Rental_rate	NUMERIC(4,2)	Rental rate of film
length	SMALLINT	Length of film
Replacement_cost	NUMERIC(5,2)	Replacement cost of film
rating	Mpaa_rating	Rating of film
Last_update	TIMESTAMP(6) WITHOUT	Date of film's last updated
	TIME ZONE	
Special_features	TEXT[]	Description of what special features are included in the film
fulltext	TSVECTOR	Summary of text describing film

LANGUAGE				
Columns	Data Type	Description		
language_id	SERIAL	Number assigned to language		
name	CHARACTER(20)	Name of language		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date of language last updated		

CATEGORY				
Columns	Data Type	Description		
category_id	SERIAL	Number assigned to film		
name	CHARACTER(25)	Name of category		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date category last updated		

Step 4

Which actors brought Rockbuster the most revenue? From the description of the actor table, we can easily locate where to get the which actors brought the most revenue.

What language are the majority of movies in the collection? The answer can be found in the language table, I can easily get the details from the language tables.