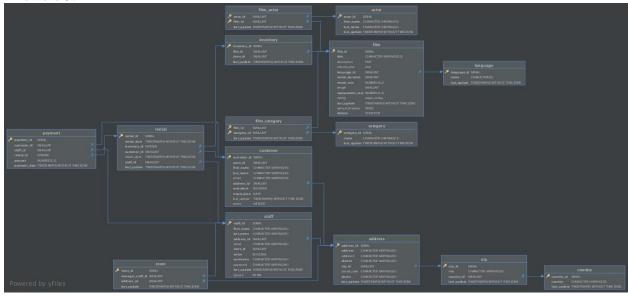
Answers 3.2



Part 3

- A) The ERD above has a star schema you can tell it is a star schema because there is no central point that each data base is connecting to, you can also tell from the tables in the bottom right of the graph how they branch off each other.
- B) Fact tables and Dimensions

Payment

payment_ID	Serial	The cards
		payment
		information
customer_ID	SMALLINT	Customers ID
		number
staff_ID	SMALLINT	Staff member that
		helped customer
rental_ID	INTEGER	Number referring
		to the item being
		rented
amount	NUMERIC(5,2)	Amount of
		purchase
payment_date	TIMESTAMP(6)	Day the
	WITHOUT TIME	transaction took
	ZONE	place

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rental_id	SERIAL	Refers to the item being
		rented
rental_Date	TIMESTAMP(6) WITHOUT	Mm/dd/yy
	TIME ZONE	
inventory_id	INTEGER	Number of the copy that was
		rented
customer_id	SMALLINT	Customers number ID
return_date	TIMESTAMP(6) WITHOUT	Day the movie was retuned
	TIME ZONE	
staff_id	SMALLINT	Id of the staff member
last_update	TIMESTAMP(6) WITHOUT	When the item was updated
	TIME ZONE	in the system as in stock

Store

Store_id	Serial	Number that corresponds to
		store
Manager_staff_id	SMALLINT	Managers number ID
Address_id	SMALLINT	The address of the store in
		numbers
Last_update	TIMESTAMP(6) WITHOUT	Time the store opens
	TIME ZONE	_

Film_actor

1 11111_ucto1		
Actor_id	SMALLINT	Number corresponding to an
		actor
Film_id	SMALLINT	Number corresponding to a
		film
Last_update	TIMESTAMP(6) WITHOUT	Date movie was made
_	TIME ZONE	

Inventory

Inventory_id	SERIAL	Number that refers to the
		inventory
Film_id	SMALLINT	Number that refers to the film
Store_id	SMALLINT	Number that refers to the
		store
Last_update	TIMESTAMP(6) WITHOUT	Last updated
	TIME ZONE	

Film_Category

Tim_category		
Film_id	SMALLINT	Number that refers to the film
Category_id	SMALLINT	Number that refers to the
		category
Last_update	TIMESTAMP(6) WITHOUT	Last updated
	TIME ZONE	_

Customer

Customer_id	SERIAL	Number that refers to the
		customer
Store_id	SMALLINT	Number that refers to the
		store
First_name	CHARACTER VARYING	First name of customer
	(45)	
Last_name	CHARACTER VARYING	Last name of customer
	(45)	
Email	CHARACTER VARYING	Email address
	(45)	
Address_id	SMALLINT	Number relating to address of
		customer
Activebool	BOOLEAN	True or false
Create_date	DATE	Date that the entry customer
		was created
Last_update	TIMESTAMP(6) WITHOUT	Last update
_	TIME ZONE	_
Active	INTEGER	Is the customer active

Staff

Staff_id	SERIAL	Number referring to staff
		member
First_name	CHARACTER VARING(45)	First name
Last_name	CHARACTER VARING(45)	Last name
Address_id	SMALLINT	Address number
Email	CHARACTER VARING(50)	Email address
Store_id	SMALLINT	Number referring to store
Active	BOOLEAN	True or false
Username	CHARACTER VARING(16)	User name for employee
		login
Password	CHARACTER VARING(40)	Password for employee login
Last_update	TIMESTAMP(6) WITHOUT	Last update
	TIME ZONE	
Picture	BYTEA	Employee picture

Actor

Actor_id	Serial	Number referring to the actor
First_name	CHARACTER	First name of actor
	VARYING(45)	
Last_name	CHARACTER	Last name of actor
	VARYING(45)	
Last_update	TIMESTAMP(6) WITHOUT	Last update
	TIME ZONE	

Film

SERIAL	Number referring to film
CHARACTER	Title of film
VARYING(255)	
TEXT	Description of film
YEAR	What year movie was
	released
SMALLINT	Number referring to language
	of movie
SMALLINT	Length of movie rental
NUMERIC(4,2)	Price to rent the movie
SMALLINT	How long the movie is
NUMERIC(5,2)	Cost to replace the movie
Mpaa_rating	
TIMESTAMP(6) WITHOUT	Last update
TIME ZONE	_
TEXT[]	Special features about the in
	the movie like bonus scenes
TSVECTOR	Full text
	CHARACTER VARYING(255) TEXT YEAR SMALLINT SMALLINT NUMERIC(4,2) SMALLINT NUMERIC(5,2) Mpaa_rating TIMESTAMP(6) WITHOUT TIME ZONE TEXT[]

Category

Category_id	SERIAL	Number referring to category
Name	CHARACTER	Name of category
	VARYING(25)	
Last_update	TIMESTAMP(6) WITHOUT	Last update
_	TIME ZONE	_

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City_id	SERIAL	Number referring to city
City	CHARACTER	Name of city
	VARYING(50)	
Country_id	SMALLINT	Id referring to country
Last_update	TIMESTAMP(6) WITHOUT	Last update
	TIME ZONE	

Country

Country_id	Serial	Number referring to country
Country	CHARACTER	Name of country
	VARYING(50)	-
Last_update	TIMESTAMP(6) WITHOUT	Last update
_	TIME ZONE	_

Language

Language_id	SERIAL	Number referring to language
Name	CHARACTER(20)	Name of language
Last_update	TIMESTAMP(6) WITHOUT	Last update
	TIME ZONE	

⁴a) you would need the actor table and rental table.4b) you would need the language table and film table