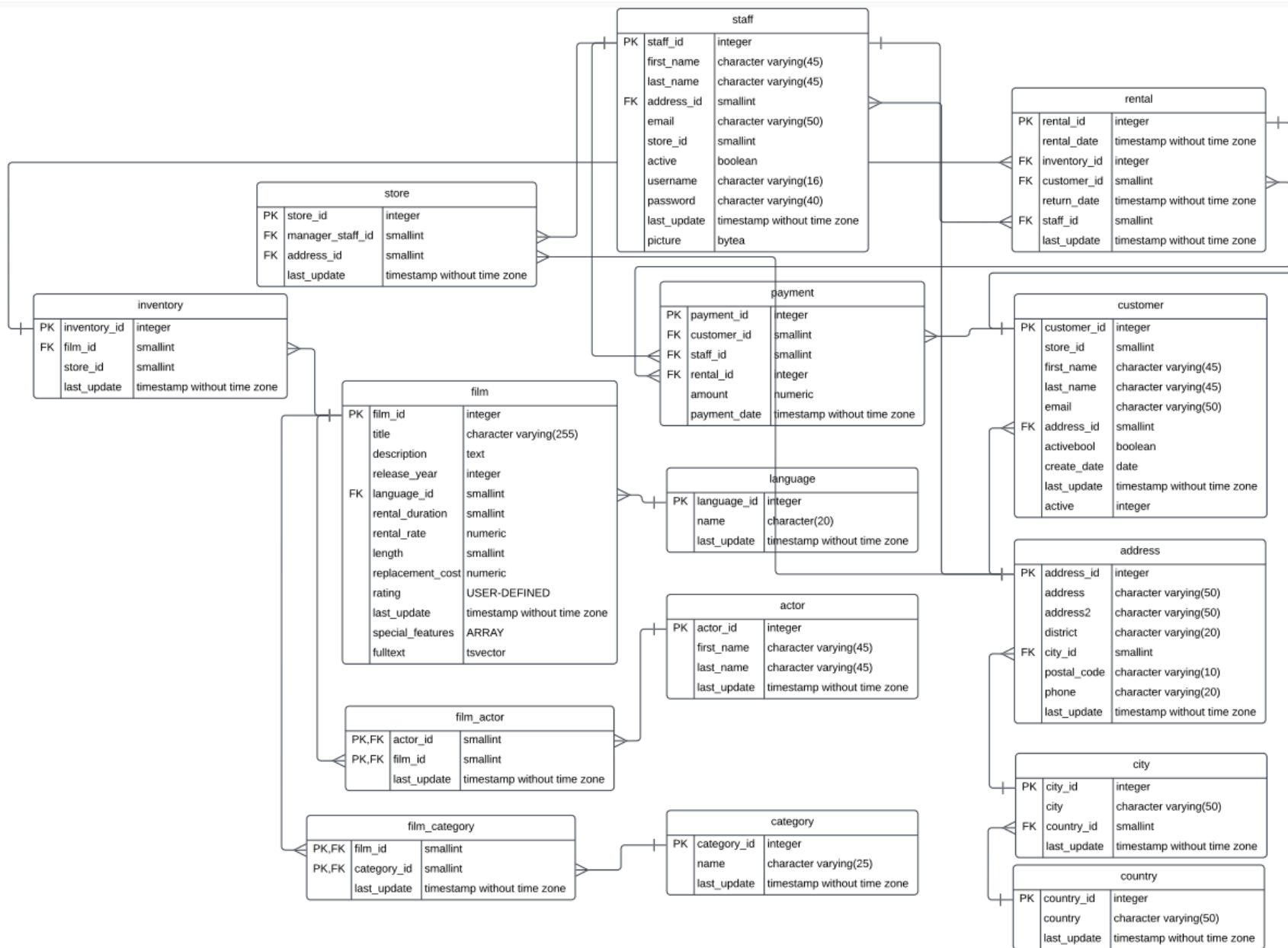


ROCKBUSTER STEALTH: DATA DICTIONARY

By Noel Hernandez
Exercise 3.10

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Fact Tables:

Payment			
Key Type	Column	Data Type	Description
Primary	payment_id	integer	To identify payment
Foreign	customer_id	smallint	To identify the customer
Foreign	staff_id	smallint	To identify Rocabuster staff
Foreign	rental_id	integer	To identify rental transaction
	amount	numeric	Monetary amount recorded for each transaction
	payment_date	Timestamp without time zone	Stores date and time of transaction

Links to:	
Table	Join
rental	rental.rental.id = payment.rental.id
customer	customer.customer.id = payment.customer.id
staff	staff.staff_id = payment.staff_id

Rental			
Key Type	Column	Data Type	Description
Primary key	rental_id	integer	To identify rental transaction
	rental_date	Timestamp without time zone	Stores date and time of item that was rented
Foreign key	inventory_id	integer	To identify item
Foreign key	customer_id	smallint	To identify the customer
	return_date	Timestamp without time zone	Stores date and time for rented item to be returned to Rockbuster
Foreign key	staff_id	smallint	To identify Rockbuster staff
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

Links to:	
Table	Join
inventory	inventory.inventory_id
customer	customer.customer_id
staff	staff_id = rental.st

Linked from:	
Table	Join
payment	Payment.rental_id = rental.rental_id

Dimension Tables:

Actor			
Key	Column	Data Type	Description
Primary key	actor	integer	To identify name of actor/actress in database
	first_name	Character varying(45)	First name of actor/actress, 45 characters max
	last_name	Character varying(45)	Last name of actor/actress, 45 characters max
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

Linked from:	
Table	Join
film_actor	film_actor.actor_id = actor.actor_id

Address			
Key	Column	Data Type	Description
Primary key	address_id	integer	To identify address in database
	address	Character varying(50)	Address in database, street number and street name
	address2	Character varying(50)	Address in database, unit number or building name if applicable
	district	Character varying(20)	Address in database, district, state, region name
Foreign key	city_id	smallint	To identify city in database
	postal_code	Character varying(10)	Postal code, 10 characters max
	phone	Character varying(20)	Phone number for address in database, 10 characters max
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

Links to:	
Table	Join
city	city.city_id = address.city_id

Linked from:	
Table	Join
customer	customer.address_id = address.address_id
staff	staff.address_id = address.address_id
store	store.address_id = address.address_id

Category			
Key	Column	Data Type	Description
Primary key	category_id	integer	To identify category of film
Foreign key	name	Character varying(25)	Name of category, max 25 characters
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

<i>Linked from:</i>	
Table	Join
film_category	film_category.category_id = category.category_id

City			
Key	Column	Data Type	Description
Primary key	city_id	integer	To identify city in database
	city	Character varying(50)	Name of city, 50 characters max
Foreign key	country_id	smallint	To identity country in database
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

<i>Links to:</i>	
Table	Join
country	country.country_id = city.country_id

Linked from:	
Table	Join
address	address.city_id = city.city_id

Country			
Key	Column	Data Type	Description
Primary key	country_id	integer	To identity country in database
	country	Character varying(50)	Name of country, 50 characters max
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

Linked from:	
Table	Join
city	city.country_id = country.country_id

Customer			
Key	Column	Data Type	Description
Primary key	customer_id	integer	To identify customer in database

	store_id	smallint	To identify unique Rockbuster location
	first_name	Character varying(45)	First name of customer, 45 characters max
	last_name	Character varying(45)	Last name of customer, 45 characters max
	email	Character varying(50)	Email of customer, 45 characters max
Foreign key	address_id	smallint	Address of customer
	activebool	boolean	Customer's account status, true, false, or null
	create_date	date	Date of when customer account was created
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

<i>Links to:</i>	
Table	Join
address	address.address_id = customer.address_id

<i>Linked from:</i>	
Table	Join
rental	rental.customer_id = customer.customer_id

Film			
Key	Column	Data Type	Description
Primary key	flim_id	integer	To identify the film
	title	Character varying(255)	Film title, max 255 characters
	description	text	Synopsis of film
	release_year	integer	Year the film was released
Foreign key	language_id	smallint	To identify the language of the film with a number
	rental_duration	smallint	To identify number of days the item can be rented for
	rental_rate	numeric	Rate of the item
	length	smallint	Length of film in minutes
	replacement_cost	numeric	Monetary amount the customer owes Rockbuster if rental item is lost or damaged
	rating	USER_DEFINED	Film rating
	last_update	Timestamp without time zone	Stores date and time of previous update for this database
	special_features	ARRAY	Additional content separate from the

			original film
	fulltext	tsvector	Text data that can be searched

<i>Links to:</i>	
Table	Join
language	language.language_id = film.language_id

<i>Linked from:</i>	
Table	Join
inventory	inventory.film_id = film.film_id
film_category	film_category.film_id = film.film_id
film_actor	film_actor.film_id = film.film_id

Film_actor			
Key	Column	Data Type	Description
Foreign key	actor_id	smallint	Composite key, to identify actor/actress in database
Foreign key	film_id	smallint	Composite key, to identify film in database

	last_update	Timestamp without time zone	Stores date and time of previous update for this database
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<i>Links to:</i>	
Table	Join
film	film.film_id = film_actor.film_id
actor	actor.actor_id = film_actor.actor_id

Film_category			
Key	Column	Data Type	Description
	film_id	smallint	Composite key, to identify film in database
	category_id	smallint	Composite key, to identify category of the film in database
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

<i>Links to:</i>	
Table	Join
film	film.film_id = film_category.film_id
category	category.category_id = film_category.category_id

Inventory			
Key	Column	Data Type	Description
Primary key	inventory_id	integer	To identify item
Foreign key	film_id	smallint	To identify film
	store_id	smallint	To identify unique Rockbuster location
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

<i>Links to:</i>	
Table	Join
rental	rental.inventory_id = inventory.inventory_id

<i>Linked from:</i>	
Table	Join
film	film.film_id = inventory.film_id

Language			
Key	Column	Data Type	Description
	language_id	integer	Primary key , to identify the language of the film with a number
	name	character(20)	Name of the language of the film, max 20 characters
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

<i>Linked from:</i>	
Table	Join
film	film.language_id = language.language_id

Staff			
Key	Column	Data Type	Description
Primary key	staff_id	integer	To identify staff
	first_name	Character varying(45)	First name of staff, 45 characters max
	last_name	Character varying(45)	Last name of staff, 45 characters max
Foreign key	address_id	smallint	Staff member's address
	email	Character varying(50)	Email of staff
	store_id	smallint	To identify unique Rockbuster location
	active	boolean	Employee's statue, true, false, or null
	username	Character varying(16)	Employee's login username for Rockbuster
	password	Character varying(40)	Employee's login password for Rockbuster
	last_update	Timestamp without time zone	Stores date and time of previous update for this database
	picture	bytea	Staff picture

<i>Links to:</i>	
Table	Join
address	address.address_id = staff.address_id

<i>Linked from:</i>	
Table	Join
rental	rental.staff_id = staff.staff_id
payment	payment.staff_id = staff.staff_id
store	store.manager_staff_id = staff.staff_id

Store			
Key	Column	Data Type	Description
	store_id	integer	To identify unique Rockbuster location
Foreign key	manager_staff_id	smallint	To identify manager
Foreign key	address_id	smallint	Address of unique Rockbuster
	last_update	Timestamp without time zone	Stores date and time of previous update for this database

<i>Links to:</i>	
Table	Join
address	address.address_id = store.address_id
staff	staff.staff_id = store.manager_staff_id