

ROCKBUSTER STEALTH

Data Dictionary

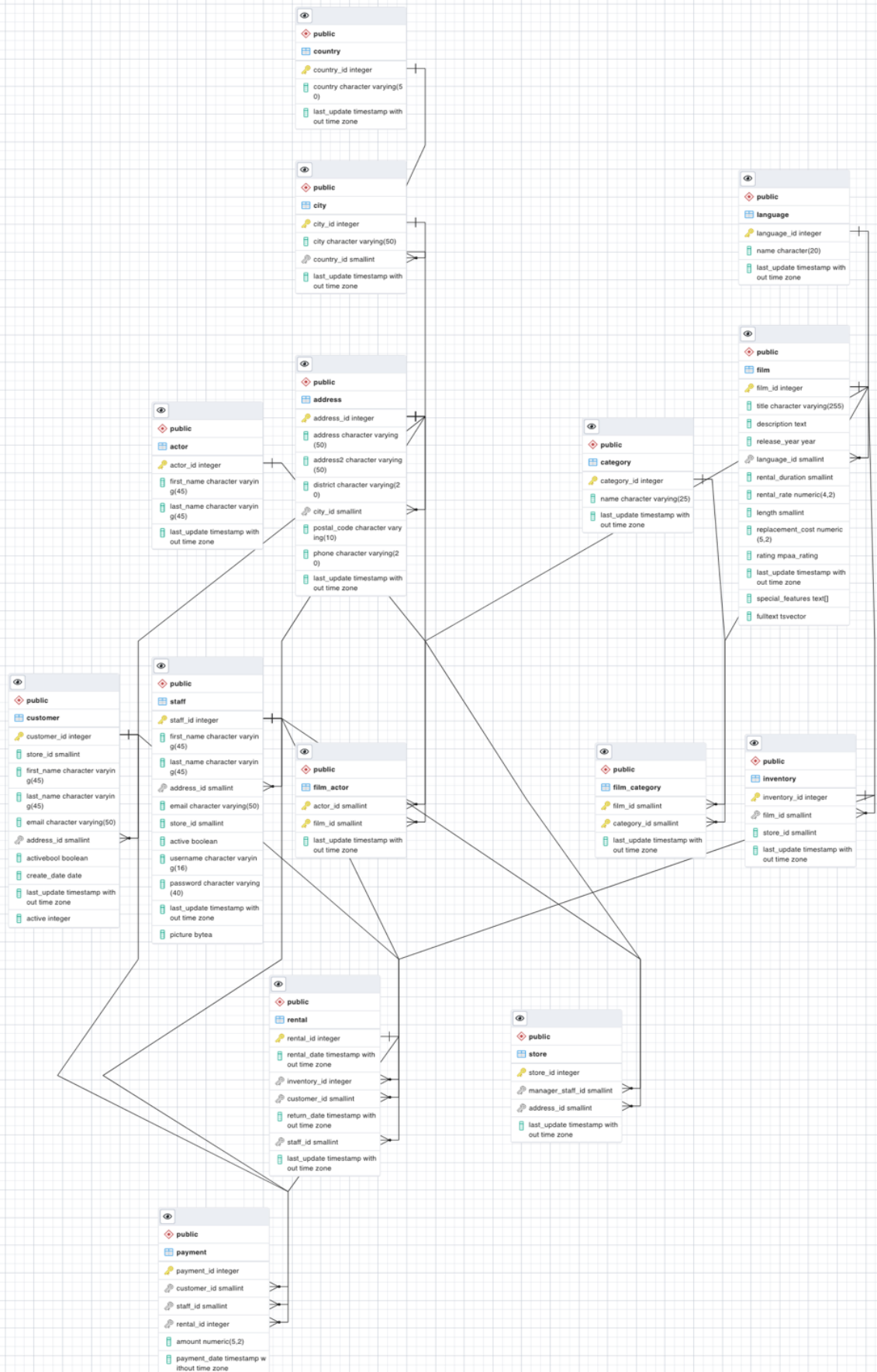
MOVIE RENTAL REPORT

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BUSINESS ENTITY DIAGRAM

Rockbuster/postgres@PostgreSQL 14



Legends:

Primary Key

Foreign Key

FACT TABLES

KEY FACT TABLE 1: RENTAL FLOW-CHART			
Columns	Data-Type	Description	Linking to/With:
rental_id	Integer	Rental event's reference number	
rental_date	Time Stamp without time zone	Transacted event return date	
last_Update	Time stamp without time zone	Event's current Status	
customer_id	SmallInt	Film Renter's unique I.D number	Customer
staff_id	SmallInt	I.D of rental order processing staff	Staff
inventory_id	Integer	Assigned product or item number	Inventory
return_date	Time Stamp without time zone	Return date of rented film by customer	

FACT TABLE 2: PAYMENT			
Columns	Data-Type	Description	Linking to/With:
payment_id	Integer	Payment transaction reference number	
customer_id	Smallint	Buyer's unique I.D number	Customer
Staff_id	Smallint	Order Processing Staff I.D number	Staff
rental_id	Integer	Unique reference number for the rental event	Rental
amount	Numeric (5,2)	Rental amount for payment	
payment_date	Time Stamp without Time zone	Transactional date for rental payment	

DIMENSION TABLES

CUSTOMER			
Columns	Data-Type	Description	Linking to/With:
customer_id	Integer	Film Renter's unique I.D number	Payment
store_id	SmallInt	Assigned code number for each Store	store_id
first_name	Character varying (45)	Customer's First Name	
last_name	Character varying (45)	Customer's Last Name	
email	Character varying (50)	Customer E-mail address	
address_id	SmallInt	Store's physical and mailing address	address_id
activebool	Boolean	Customer's current active/inactive status or option	
create_date	date	First time customer's documented record(s) on the system	
last_update	Time Stamp without time zone	Updated last event's status	
active	integer	Customer's current active/inactive status or option	

STAFF			
Columns	Data-Type	Description	Linking to/With:
staff_id	Integer	I.D of rental order processing staff	Payment, Rental
first_name	Character varying (45)	Staff member's First Name	
last_name	Character varying (45)	Staff member's Last Name	
address_id	SmallInt	Store's physical and mailing address	Address_id
email	Character varying (50)	Staff member's E-mail address	
store_id	Integer	Assigned code number for each Store	Store_id
active	Boolean	Staff's current active/inactive status or option	
username	Character varying (16)	Staff's system log-in username	
password	Character varying (40)	Staff system log-in password	
last_update	Time Stamp without time zone	Updated last event's status	
picture	bytea	Staff's photo image	

DIMENSION TABLES

STORE			
Columns	Data-Type	Description	Linking to/With:
store_id	Integer	Assigned code number for each Store	Film_id, Actor_id
manager_staff_id	Smallint	Store Manager Unique I.D Number	Staff_id
address_id	Smallint	Store's physical and mailing address	Address_id
last_update	SmallInt	Updated status for last event(s)	

ADDRESS			
Columns	Data-Type	Description	Linking to/With:
address_id	Integer	Store's location code number	Store, Staff, Customer
address	Character varying (50)	Store's address	
address 2	Character varying (50)	Store's additional address	
district	Character varying (20)	Store's District Name	
city_id	SmallInt	Store's city name	City_id
postal_code	Character varying (10)	Store's city zip code	
phone	Character varying (20)	store's phone number	
last_update	Time Stamp without time zone	Updated last event's status	

DIMENSION TABLES

CITY			
Columns	Data-Type	Description	Linking to/With:
city_id	Integer	Assigned City's unique I.D code number	
city	character varying (50)	Name of City	Country_id
last_update	Time stamp without time zone	Updated last event's status	
country_id	Smallint	Assigned country I.D number	

COUNTRY			
Columns	Data-Type	Description	Linking to/With:
country_id	Integer	Assigned country I.D number	
country	Character varying (50)	Name of the Country	City_id
last_update	Time stamp without time zone	Updated last event's status	

DIMENSION TABLES

INVENTORY			
Columns	Data-Type	Description	Linking to/With:
inventory_id	Integer	unique film's product code number	Rental_id
film_id	Smallint	Unique film's reference number	Film
store_id	Smallint	Assigned code number for each Store	Store_id
last_update	Time Stamp without time zone	Updated last event's status	

FILM			
Columns	Data-Type	Description	Linking to/With:
film_id	Integer	Unique film's reference number	Film Category, Film Actor, Inventory
title	Character varying (255)	Film's Title Header	
description	Text	Film's summary description	
release_year	Year	Film's released year	
language_id	Smallint	I.D code for Film's language in use	Language_id
rental_duration	Smallint	Film's rental timeline	
rental_rate	Numeric (4,2)	Film's rental pricing rate	
length	Smallint	Film's playtime duration	
replacement_cost	Numeric (5,2)	Cost of replacing a lost or missed film	
mpaa_rating	Rating	Film's Watch-Guide Industry rating	
last_updates	Time Stamp without time zone	Updated last event's status	
special_features	Text {}	Film's add-ons for consumers	
fulltext	Tsvector	Important key words	

DIMENSION TABLES

LANGUAGE			
Columns	Data-Type	Description	Linking to/With:
language_id	Integer	I.D code for Film's language in use	Film
name	Character varying (20)	Film's language name in use	
last_update	Time stamp without time zone	Updated last event's status	

FILM ACTOR			
Columns	Data-Type	Description	Linking to/With:
actor_id	Integer	Actor's unique reference number	Actor
film_id	Smallint	Unique film's category reference number	Film
last_update	Time stamp without time zone	Updated status for last event(s)	

DIMENSION TABLES

FILM CATEGORY			
Columns	Data-Type	Description	Linking to/With:
film_id	Smallint	Unique film's reference number	Film
category_id	Smallint	Unique film's category reference number	Category
last_update	Time stamp without time zone	Updated status for last event(s)	

CATEGORY			
Columns	Data-Type	Description	Linking to/With:
category_id	Integer	Film's category unique reference number	Film_Category
name	Character varying (25)	Film's category genre name	
last_update	Time stamp without time zone	Updated last event's status	

1. DbVisualizer Software: Making Business Entities Diagram
2. Microsoft Excel: Creation of Fact and Dimension Tables
3. AdventureWorks: Data Dictionary - Guided ePDF