Rockbuster Stealth

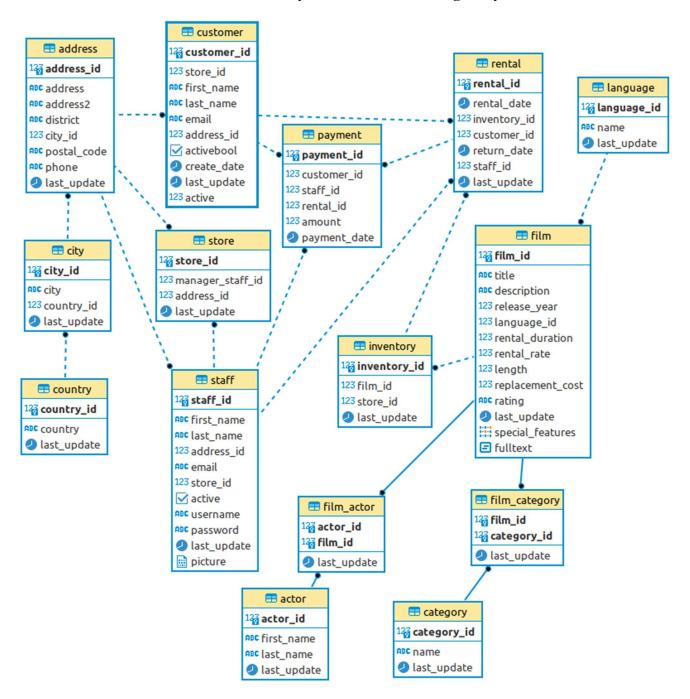
Database Guide

Including Entity Relationship Diagram (ERD) and Database Dictionary

Entity Relationship	p Diagram (ERD)	3
Fact Table: payme	ent	4
Fact Table: rental		4
Dimension Table:	actor	4
Dimension Table:	address	4
Dimension Table:	category	4
Dimension Table:	city	4
Dimension Table:	country	4
Dimension Table:	customer	5
Dimension Table:	film	5
Dimension Table:	film_actor	5
Dimension Table:	film_category	5
	inventory	
Dimension Table:	language	5
	staff	
	store	

Entity Relationship Diagram (ERD)

NB: The store_id column in the store table may be joined with the same column in other tables, but is not actually referenced as a Foreign Key.



Fact table: payment							
<u>Keys</u>	Column	Data Type	Description	Linked To	Linked From		
			A unique ID for each payment				
Primary	payment_id	integer	transaction.				
Foreign	customer_id	smallint	Customer account number.	customer			
			Unique ID of employee who				
Foreign	staff_id	smallint	processed the payment.	staff			
			A unique ID for each rental				
Foreign	rental_id	integer	occasion.	rental			
			How much money was paid for the				
	amount	numeric(5,2)	rental.				
			Date (and time) the payment was				
	payment_date	timestamp without time zone	made.				

Fact table: rental							
Keys	<u>Column</u>	Data Type	Description	Linked To	Linked From		
			A unique ID for each rental				
Primary	rental_id	integer	occasion.		payment		
			Date (and time) the rental was				
	rental_date	timestamp without time zone	initiated.				
			A unique ID for the inventory				
Foreign	inventory_id	integer	object (presumably a movie).	inventory			
Foreign	customer_id	smallint	Customer account number.	customer			
			Date (and time) the inventory				
	return_date	timestamp without time zone	object was returned to the store.				
			Unique ID of employee who				
Foreign	staff_id	smallint	processed the rental.	staff			
			Date (and time) the record was				
	last_update	timestamp without time zone	last updated.				

Dimension table: actor							
<u>Keys</u>	<u>Column</u>	Data Type	Description	Linked To	Linked From		
Primary	actor_id	integer	A unique ID for each actor.		film_actor		
	first_name	character varying(45)	Given name.				
	last_name	character varying(45)	Surname.				
			Date (and time) the record was				
	last_update	timestamp without time zone	last updated.				
		Dimension t	table: address				
<u>Keys</u>	<u>Column</u>	Data Type	Description	Linked To	Linked From		
Primary	address_id	integer	A unique ID for each address.		customer, staff, store		
	address	character varying(50)	First line of an address.				
			Second line of an address, e.g.				
	address2	character varying(50)	apartment number.				
			Possibly neighborhood, borough,				
	district	character varying(20)	arrondissement, etc.				
Foreign	city_id	smallint	A unique ID for each city.	city			
	postal_code	character varying(10)	Postal code.				
	phone	character varying(20)	Telephone number.				
			Date (and time) the record was				
	last_update	timestamp without time zone	last updated.				

		<u>Dimension t</u>	able: category		
<u>Keys</u>	<u>Column</u>	Data Type	Description	Linked To	Linked From
Primary	category_id	integer	A unique ID for each film category.		film_category
	name	character varying(25)	Category name.		
			Date (and time) the record was		
	last_update	timestamp without time zone	last updated.		
		Dimensio	n table: city		
<u>Keys</u>	<u>Column</u>	Data Type	Description	Linked To	Linked From
Primary	city_id	integer	A unique ID for each city.		address
	city	character varying(50)	Name of city (or town, etc.).		
Foreign	country_id	smallint	A unique ID for each country.	country	
			Date (and time) the record was		
	last update	timestamp without time zone	last updated.		

<u>Dimension table: country</u>									
<u>Keys Column Data Type Description Linked To Linked From</u>									
Primary	country_id	integer	A unique ID for each country.		city				
	country	character varying(50)	Name of country.						
			Date (and time) the record was						
	last_update	timestamp without time zone	last updated.						

Dimension table: customer						
<u>Keys</u>	<u>Column</u>	Data Type	<u>Description</u>	Linked To	Linked From	
Primary	customer_id	integer	Customer account number.		payment, rental	
			A unique ID for each retail			
			location. (Apparently one			
			customer can only be associated			
	store_id	smallint	with one store. Yuck.)	(store, but not actually linked)		
	first_name	character varying(45)	Given name.			
	last_name	character varying(45)	Surname.			
	email	character varying(50)	Email address.			
Foreign	address_id	smallint	A unique ID for each address.	address		
			Whether or not the customer is			
	activebool	boolean	considered "active."			
			Date the customer record was first			
			entered into the system, in			
	create_date	date	machine-friendly form.			
			Date (and time) the record was			
	last_update	timestamp without time zone	last updated.			
			Whether or not the customer is			
	active	integer	considered "active."			

	active	integer	considered "active."		
		<u>Dimensio</u>	n table: film		
<u>Keys</u>	<u>Column</u>	Data Type	<u>Description</u>	Linked To	Linked From
					film_actor,
					film_category,
Primary	film_id	integer	A unique ID for each film.		inventory
	title	character varying(255)	The title of the film.		
	description	text	A description of the film.		
Familia	release_year	year	The year the film was released.	In any service as a	
Foreign	language_id	smallint	A unique ID for each language. The duration for which the film was	language	
	rental duration	smallint	rented, presumably in days.		
	Tental_duration	Smailint	The price charged the customer		
			per unit of time (day?) the movie is		
	rental rate	numeric(4,2)	rented.		
	Toniai_rato	114110110(1,2)	Film duration (presumably in		
	length	smallint	minutes).		
	longur		How much it would cost the		
			company to replace films that are		
	replacement cost	numeric(5,2)	never returned.		
		(2,2)	Content rating assigned to the film		
			by the Motion Picture Association		
	rating	mpaa_rating	of America (MPAA).		
			Date (and time) the record was		
	last update	timestamp without time zone	last updated.		
			Any special features of the film (or		
	special_features	text[]	its media, e.g. DVD extras).		
			Full Text Search field: presumably		
			search-friendly keyword-based		
	fulltext	tsvector	description of the film.		
			able: film actor		
<u>Keys</u>	<u>Column</u>	Data Type	<u>Description</u>	<u>Linked To</u>	Linked From
Composite Primary and Foreign	actor_id	smallint	A unique ID for each actor.	actor	
Composite Primary and Foreign	film_id	smallint	A unique ID for each film.	film	
			Date (and time) the record was		
	last_update	timestamp without time zone	· · · · · · · · · · · · · · · · · · ·		
		Dimension tab	<u>le: film category</u>		
Keys	<u>Column</u>	Data Type	Description	Linked To	Linked From
Composite Primary and Foreign	film_id	smallint	A unique ID for each film.	film	
Composite Primary and Foreign	category_id	smallint	A unique ID for each film category.	category	
			Date (and time) the record was		
	last_update	· · · · · · · · · · · · · · · · · · ·	last updated.		
		Dimension to	able: inventory		
Keys	<u>Column</u>	Data Type	<u>Description</u>	Linked To	Linked From
			A unique ID for the inventory		
Primary	inventory_id	integer	object (presumably a movie).		rental
Foreign	film_id	smallint	A unique ID for each film.	film	
			A unique ID for each retail		
	store_id	smallint	location.	(store, but not actually linked)	
			Date (and time) the record was		
	last_update	timestamp without time zone			
		Dimension to	<u>able: language</u>		
Keys	<u>Column</u>	Data Type	Description	Linked To	Linked From
Primary	language_id	integer	A unique ID for each language.		film
	name	character(20)	Name of the language.		
			Date (and time) the record was		

		Dimension	n table: staff		
Keys	<u>Column</u>	Data Type	Description	Linked To	Linked From
					payment, rental,
Primary	staff_id	integer	Unique ID of employee.		store
	first_name	character varying(45)	Given name.		
	last_name	character varying(45)	Surname.		
Foreign	address_id	smallint	A unique ID for each address.	address	
	email	character varying(50)	Email address.		
			A unique ID for each retail		
	store_id	smallint	location.	(store, but not actually linked)	
			Whether or not the employee is		
	active	boolean	considered "active."		
	username	character varying(16)	Employee's system username.		
			Employee's system password		
	password	character varying(40)	(hopefully as an encrypted string!).		
			Date (and time) the record was		
	last_update	timestamp without time zone	last updated.		
	picture	bytea	Headshot of employee.		
		<u>Dimension</u>	table: store		
<u>Keys</u>	<u>Column</u>	Data Type	Description	Linked To	Linked From
					(customer and staff,
			A unique ID for each retail		but not actually
Primary	store_id	integer	location.		linked)
			The staff_id for the manager of the		
Foreign	manager_staff_id	smallint	retail location.	staff	
Foreign	address_id	smallint	A unique ID for each address.	address	
			Date (and time) the record was		
	last update	timestamp without time zone	last updated.		