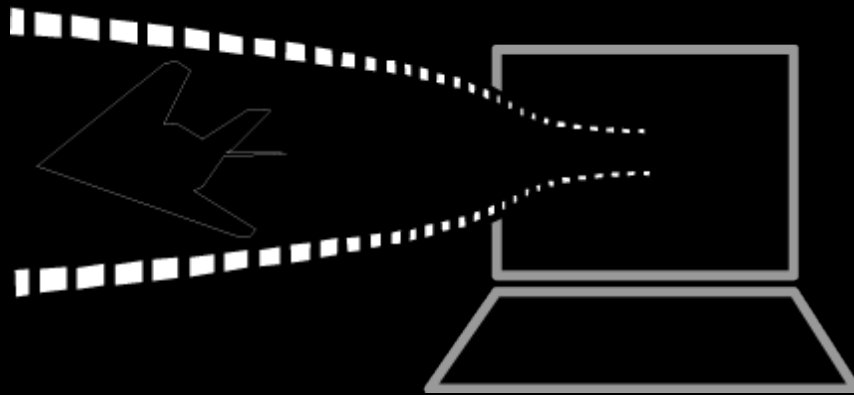


Rockbuster Stealth

Data Dictionary

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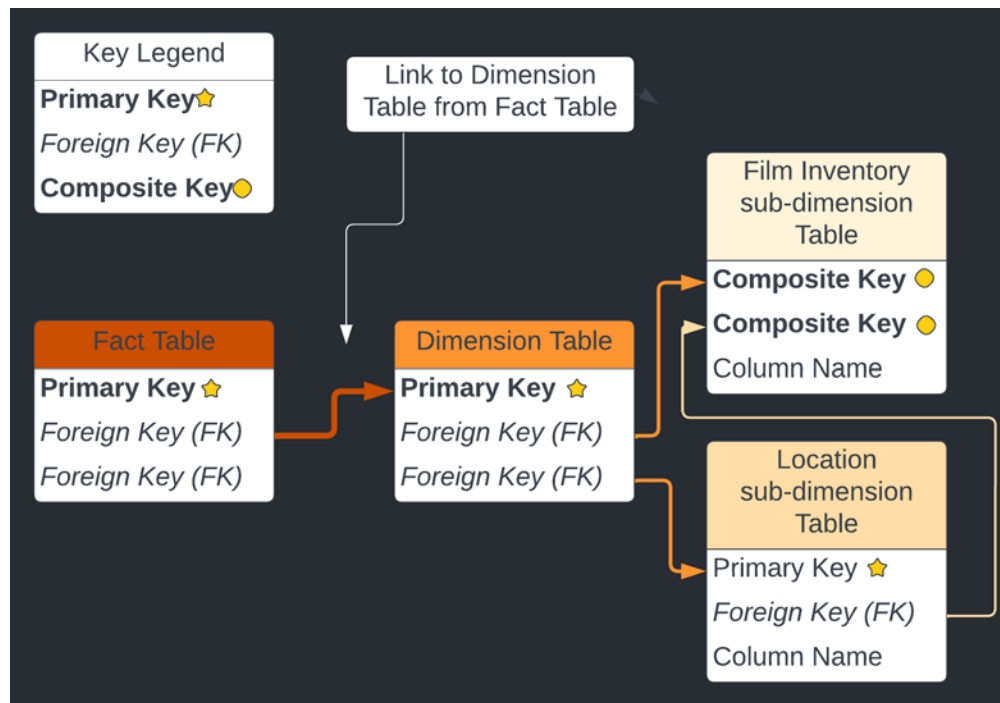
Rockbuster Database Overview

The Rockbuster database contains tables related to Rockbuster customers and inventory. This database is used to track payments for, and information about, movie rentals. The Entity Relationship Diagram (ERD) on the next page lists the tables, and their columns, found in the Rockbuster database.

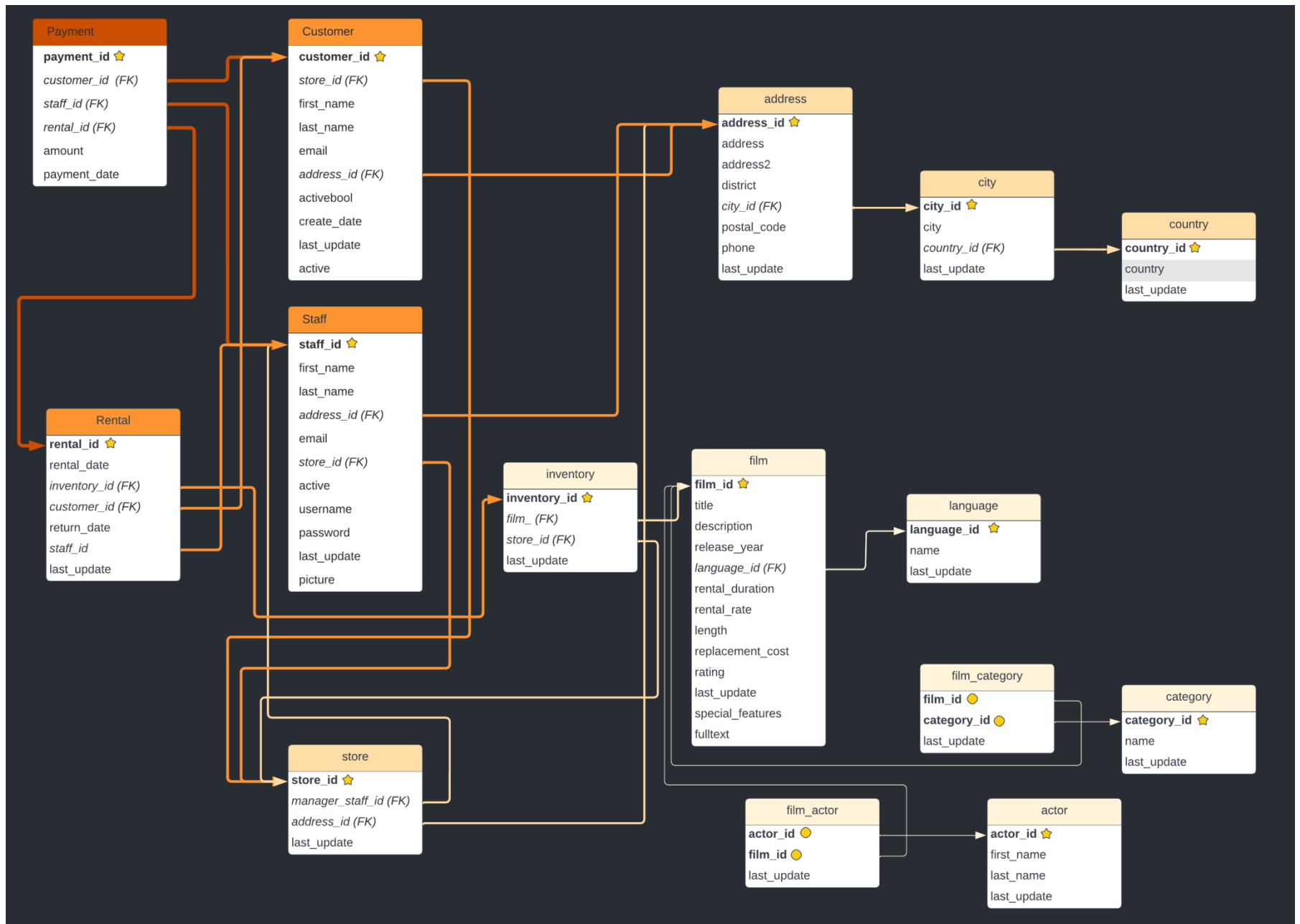
The Payment table is the fact table. The database has a snowflake schema. The three primary dimensions are Customer, Staff, and Rental. All film information is found in sub-dimensions of the rental dimension. The customer and staff dimensions share sub-dimensions related to addresses (including city and country).

ERD Legend

The entities and their connections are colour-coded in the ERD. An explanation of the colour-coding is found in the ERD legend below.



Entity Relationship Diagram



Tables:

The following tables describe the tables in the Rockbuster database. The 'Links To' table indicates which tables the foreign keys are found in. The 'Links From' table indicates where the primary keys are listed as foreign keys. These relationships are shown in the ERD (page 5) as arrows leaving the foreign key on the right side of an entity and arriving in/pointing to the primary key on the left side of the corresponding entity.

Payment Table (fact table)

Columns	Data Type	Description	Keys	Links To	Links From
payment_id	serial	Unique ID of payment	primary		
customer_id	int2	Unique ID of customer	foreign	customer	
staff_id	int2	Unique ID of staff handling transaction	foreign	staff	
rental_id	int4	Unique ID of rental	foreign	rental	
amount	numeric	Amount owing			
payment_date	timestamp	Date payment made			

Customer Table (dimension)

Columns	Data Type	Description	Keys	Links To	Links From
customer_id	serial	Unique ID of customer	primary		payment, rental
store_id	int2	Unique ID of store where account is	foreign	store	
first_name	varchar	First name of customer			
last_name	varchar	Last name of customer			
email	varchar	Email address of customer			
address_id	int2	Unique ID of address	foreign	address	
activebool	bool	Active status of customer (boolean)			
create_date	date	Date customer account created			
last_update	timestamp	Last time record updated			
active	int4	Active status of customer (integer)			

Staff Table (dimension)

Columns	Data Type	Description	Keys	Links To	Links From
staff_id	serial	Unique ID of staff member	primary		payment, rental, store
first_name	varchar	First name of staff member			
last_name	varchar	Last name of staff member			
address_id	int2	Unique ID of staff member address	foreign	address	
email	varchar	Email address of staff member			
store_id	int2	Unique ID of store where staff works	foreign	store	
active	bool	Active status of staff member (boolean)			
username	varchar	Username of staff member			
password	varchar	Password of staff member			
last_update	timestamp	Last time record updated			
picture	bytea	Photo of staff member			

Rental Table (dimension)

Columns	Data Type	Description	Keys	Links To	Links From
rental_id	serial	Unique ID for each rental	primary		payment
rental_date	timestamp	Date of rental			
inventory_id	int4	Unique ID of item rental item	foreign	inventory	
customer_id	int2	Unique ID of customer renting inventory	foreign	customer	
return_date	timestamp	Date rental due back			
staff_id	int2	Unique ID of staff checking out rental	foreign	staff	
last_update	timestamp	Last time record updated			

Actor Table (film/inventory sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
actor_id	serial	Unique id of actor	primary		film_actor
first_name	varchar	First name of actor			
last_name	varchar	Last name of actor			
last_update	timestamp	Last time record updated			

Address Table (location sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
address_id	serial	Unique ID of address	primary		customer, staff, store
city_id	int2	City	foreign	city	
address	varchar	Address (line 1)			
address2	varchar	Address (line 2)			
district	varchar	District			
postal_code	varchar	Postal Code			
phone	varchar	Phone number			
last_update	timestamp	Last time record updated			

Category Table (film/inventory sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
category_id	serial	Unique ID of film category/genre	primary		film_category
name	varchar	Name of film category/genre			
last_update	timestamp	Last time record updated			

City Table (location sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
city_id	serial	Unique ID of city	primary		address
city	varchar	City			
country_id	int2	Unique ID of country	foreign		country
last_update	timestamp	Last time record updated			

Country Table (location sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
country_id	serial	Unique ID of country	primary		city
country	varchar	Country			
last_update	timestamp	Last time record updated			

Film Table (film/inventory sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
film_id	serial	Unique ID of film	primary		inventory, film_category, film_actor
title	varchar	Film name			
description	text	Film description			
release_year	year	Year film was released			
language_id	int2	Unique ID of language of film	foreign	language	
rental_duration	int2	Length of rental			
rental_rate	numeric	Cost of rental			
length	int2	Length of film			
replacement_cost	numeric	Replacement cost of film if lost or stolen			
rating	mpaa_rating	MPAA rating of film			
last_update	timestamp	Last time record updated			
special_features	_text	Special features included with film rental			
fulltext	tsvector	Film keywords			

Film_Actor Table (film/inventory sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
actor_id	int2	Unique ID of actor	composite, foreign	actor	
film_id	int2	Unique ID of film	composite, foreign	film	
last_update	timestamp	Last time record updated			

Film_Category Table(film/inventory sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
film_id	int2	Unique ID of film	composite, foreign	film	
category_id	int2	Unique ID of film category/genre	Composite, foreign	category	
last_update	timestamp	Last time record updated			

Inventory Table (film/inventory sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
inventory_id	serial	Unique ID of item rental item	primary		rental
film_id	int2	Unique ID of film	foreign	film	
store_id	int2	Unique ID of store where inventory held		store	
last_update	timestamp	Last time record updated			

Language Table (film/inventory sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
language_id	serial	Unique ID of film language	primary		film
name	bpchar	Film language			
last_update	timestamp	Last time record updated			

Store Table (location sub-dimension)

Columns	Data Type	Description	Keys	Links To	Links From
store_id	serial	Unique ID of store	primary		customer, staff, inventory
manager_staff_id	int2	Unique staff ID of store manager	foreign	staff	
address_id	int2	Unique ID of store address	foreign	address	
last_update	timestamp	Last time record updated			