Rockbuster Stealth LLC – Data Dictionary (Achievement 3.10)

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Overview

This dictionary documents core tables used in the analysis. It outlines fact and dimension roles, keys, and linkages to support reproducibility across SQL and BI layers.

Fact: payment

Column	Data Type	Description
payment_id	serial	Primary key
customer_id	int2	FK → customer.customer_id
staff_id	int2	FK → staff.staff_id
rental_id	int4	FK → rental.rental_id
amount	numeric(5,2)	Payment amount
payment_date	timestamp	Payment timestamp

Fact: rental

Column	Data Type	Description
rental_id	serial	Primary key
rental_date	timestamp	Rental timestamp
inventory_id	int4	FK → inventory.inventory_id
customer_id	int2	FK → customer.customer_id
return_date	timestamp	Return timestamp
staff_id	int2	FK → staff.staff_id
last_update	timestamp	Row last update

Dimension: customer

Column	Data Type	Description
customer_id	serial	Primary key
store_id	int2	Store location
first_name	varchar(45)	Given name
last_name	varchar(45)	Family name
email	varchar(50)	Email address
address_id	int2	FK → address.address_id
activebool	bool	Active flag
create_date	date	Membership date
last_update	timestamp	Row last update
active	int2	Compatibility flag

Dimension: staff

Column	Data Type	Description
staff_id	serial	Primary key
first_name	varchar	Given name

last_name	varchar	Family name
address_id	int2	FK → address.address_id
email	varchar(50)	Email address
store_id	int2	Store id
active	bool	Active flag
username	varchar(16)	Login username
password	varchar(40)	Password
last_update	timestamp	Row last update
picture	bytea	Photo

Dimension: film

Column	Data Type	Description
film_id	serial	Primary key
title	varchar(255)	Title
description	text	Synopsis
release_year	year	Release year
language_id	int2	FK → language.language_id
rental_duration	int2	Days
rental_rate	numeric(4,2)	Price
length	int2	Minutes
replacement_cost	numeric(5,2)	Replacement cost
rating	mpaa_rating	Rating
last_update	timestamp	Row last update
special_features	text[]	Extras
fulltext	tsvector	Search vector

Link: film_actor

Column	Data Type	Description
actor_id	int2	FK → actor.actor_id
film_id	int2	FK → film.film_id
last_update	timestamp	Row last update

Link: film_category

Column	Data Type	Description
film_id	int2	FK → film.film_id
category_id	int2	FK → category.category_id
last_update	timestamp	Row last update

Dimension: inventory

Column	Data Type	Description
inventory_id	serial	Primary key
film_id	int2	FK → film.film_id
store_id	int2	FK → store.store_id
last_update	timestamp	Row last update

Dimension: category

Column	Data Type	Description
category_id	serial	Primary key
name	varchar	Genre name
last_update	timestamp	Row last update

Dimension: language

Column	Data Type	Description
language_id	serial	Primary key
name	char(20)	Language name
last_update	timestamp	Row last update

Dimension: actor

Column	Data Type	Description
actor_id	serial	Primary key
first_name	varchar(45)	Given name
last_name	varchar(45)	Family name
last_update	timestamp	Row last update

Dimension: address

Column	Data Type	Description
address_id	serial	Primary key
address	varchar(50)	Street
address2	varchar(50)	Additional
district	varchar(20)	District/region
city_id	int2	FK → city.city_id
postal_code	varchar(10)	ZIP/Postal code

phone	varchar(20)	Phone
last_update	timestamp	Row last update

Dimension: city

Column	Data Type	Description
city_id	serial	Primary key
city	varchar(50)	City name
country_id	int2	FK → country.country_id
last_update	timestamp	Row last update

Dimension: country

Column	Data Type	Description
country_id	serial	Primary key
country	varchar(50)	Country name
last_update	timestamp	Row last update

Dimension: store

Column	Data Type	Description
store_id	serial	Primary key
manager_staff_id	int2	FK → staff.staff_id
address_id	int2	FK → address.address_id
last_update	timestamp	Row last update

Keys & Relationships

- payment.customer_id → customer.customer_id
- payment.rental_id → rental.rental_id
- payment.staff_id → staff.staff_id
- rental.inventory_id → inventory.inventory_id
- rental.customer_id → customer.customer_id
- inventory.film_id → film.film_id
- inventory.store_id → store.store_id
- film.language_id → language.language_id
- film_category.film_id → film.film_id; film_category.category_id → category.category_id
- film_actor.film_id → film.film_id; film_actor.actor_id → actor.actor_id
- address.city_id → city.city_id; city.country_id → country.country_id