Rockbuster Stealth
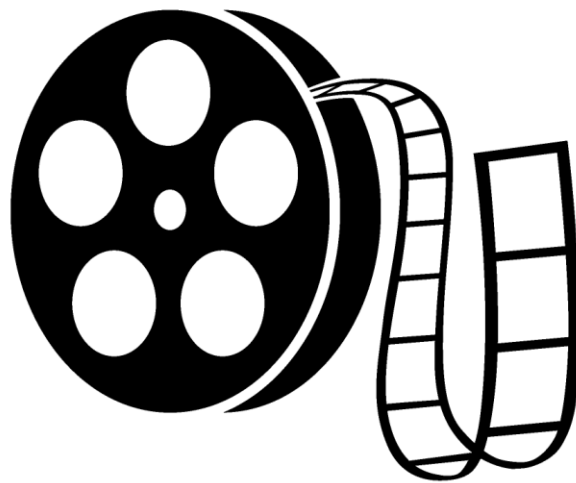
Data Dictionary
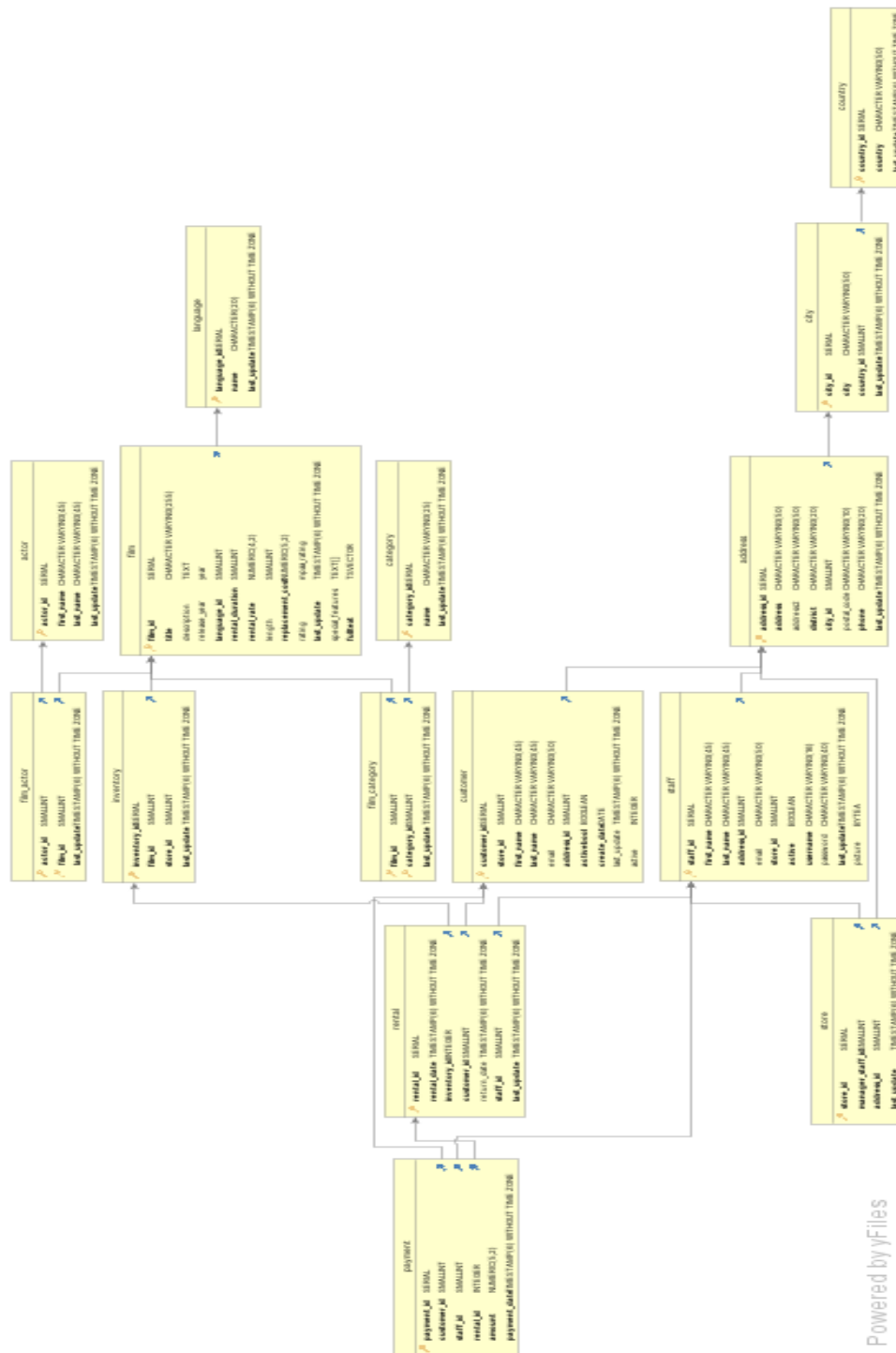
By: Madi Cuppels

Table of Contents

1. Entity Relationship Diagram (ERD)

2. Fact Tables

2.1 Payment Table

Payment			
Key	Columns	Data Type	Description
Primary Key	payment_id	serial	unique identifier for payment
Foreign Key	customer_id	small int	unique identifier for customer
Foreign Key	staff_id	small int	unique identifier for staff
Foreign Key	rental_id	integer	unique identifier for rental
	amount	numeric (5,2)	cost
	payment_date	timestamp (6) without time zone	time and date of payment

Payment Table Links to

Table	Link
Customer	payment.customer_id = customer.customer_id
Rental	payment.rental_id = rental.rental_id
Staff	payment.staff_id = staff.staff_id

Payment Table Links From: N/A

2.2 Rental Table

Rental			
Key	Columns	Data Type	Description
Primary Key	rental_id	serial	unique identifier of rental
	rental_date	timestamp (6) without time zone	time and date of rental
Foreign Key	inventory_id	integer	unique identifier of inventory
Foreign Key	customer_id	small int	unique identifier of customer
	return_date	timestamp (6) without time zone	date and time of return
Foreign Key	staff_id	small int	unique identifier of staff

	last_update	timestamp (6) without time zone	date and time of last update

Rental Table Links to

Table	Link
Customer	rental.customer_id = customer.customer_id
Staff	rental.staff_id = staff.staff_id
Inventory	rental.inventory_id = inventory.inventory_id

Rental Table Links From

Table	Link
Payment	payment.rental_id = rental.rental_id

3. Dimension Tables

3.1 Customer Table

Customer			
Key	**Columns**	**Data Type**	**Description**
Primary Key	customer_id	serial	unique identification of customer
	store_id	small int	unique identification of store
	first_name	character varying (45)	first name of customer
	last_name	character varying (45)	last name of customer
	email	character varying (50)	email address of customer
Foreign Key	address_id	smallint	unique identifier for address
	activebool	Boolean	yes or no if customer is active
	create_date	date	date customer created account
	last_update	timestamp (6) without time zone	date and time of the last update
	active	integer	status of customer activity

Customer Table Links to

Table	Link
Address	customer.address_id = address.address_id

Customer Table Links From

Table	Link
Payment	payment.customer_id = customer.customer_id
Rental	rental.customer_id = customer.customer_id

3.2 Staff Table

Staff			
Key	**Columns**	**Data Type**	**Description**
Primary Key	staff_id	serial	unique identification of staff
	first_name	character varying (45)	first name of staff member
	last_name	character varying (45)	last name of staff member
Foreign Key	address_id	small int	unique identifier for address
	email	character varying (50)	email address of staff member
	store_id	small int	unique identifier for store
	active	Boolean	yes or no if staff member is active
	username	character varying (16)	username for staff member
	password	character varying (50)	password for staff member
	last_update	timestamp (6) without time zone	date and time of last update
	picture	bytea	picture of staff member

Staff Table Links To

Table	Link
Address	staff.address_id = address.address_id

Staff Table Links From

Table	Link
Payment	payment.staff_id = staff.staff_id
Rental	rental.staff_id = staff.staff_id
Store	store.staff_id = staff.staff_id

3.3 Store Table

Store			
Key	**Columns**	**Data Type**	**Description**
Primary Key	store_id	serial	unique identifier for store
Foreign Key	manager_staff_id	small int	unique identifier for manager
Foreign Key	address_id	small in	unique identifier for store address

	last_update	timestamp (6) without time zone	date and time of last update

Store Table Links to

Table	Link
Address	store.address_id = address.address_id
Staff	store.staff_id = staff.staff_id

Store Table Links From: N/A

3.4 Film Category Table

Film Category			
Key	**Columns**	**Data Type**	**Description**
Primary Key, Foreign Key	film_id	small int	unique identifier for film
Primary Key, Foreign Key	category_id	small int	unique identifier for category
	last_update	timestamp (6) without time zone	date and time of last update

Film Category Table Links To

Table	Link
Category	film_category.category_id = category.category_id
Film	film_category.film_id = film.film_id

Film Category Links From: N/A

3.5 Inventory Table

Inventory			
Key	**Columns**	**Data Type**	**Description**
Primary Key	inventory_id	serial	unique identifier of inventory
Foreign Key	film_id	small int	unique identifier of film
	store_id	small int	unique identifier of store
	last_update	timestamp (6) without time zone	date and time of last update

Inventory Table Links To

Table	Link

Film	inventory.film_film = film.film_id

Inventory Table Links From

Table	Link
Rental	rental.inventory_id = inventory.inventory_id

3.6 Film Actor Table

Film_actor			
Key	**Columns**	**Data Type**	**Description**
Primary Key, Foreign Key	actor_id	small int	unique identifier of actor
Primary Key, Foreign Key	film_id	small int	unique identifier of film
	last_update	timestamp (6) without time zone	date and time of last update

Film Actor Table Links To

Table	Link
Actor	film_actor.actor_id = actor.actor_id
Film	film_actor.film_id = film.film_id

Film Actor Table Links From: N/A

3.7 Actor Table

Actor			
Key	**Columns**	**Data Type**	**Description**
Primary Key	actor_id	serial	unique identification of actor
	first_name	character varying (45)	first name of actor
	last_name	character varying (45)	last name of actor
	last_update	timestamp (6) without time zone	date and time of last update

Actor Table Links To: N/A

Actor Table Links From

Table	Link
Film_actor	film_actor.actor_id = actor.actor_id

3.8 Film Table

Film			
Key	**Columns**	**Data Type**	**Description**
Primary Key	film_id	serial	unique identifier of film
	title	character varying (225)	title of film
	description	text	description of film
	release_year	year	year that film was released
Foreign Key	language_id	small int	unique identification for language of film
	rental_duration	small int	duration that film was rented
	rental_rate	numeric (4,2)	cost of film rental
	length	small int	length of film
	replacement_cost	numeric (5,2)	cost to replace film
	rating	mpaa_rating	rating of film
	last_update	timestamp (6) without time zone	date and time of last update
	special features	text[]	special features of film
	fulltext	tsvector	film index

Film Table Links To

Table	Link
Language	film.language_id = language.language_id

Film Table Links From

Table	Link
Inventory	inventory.film_id = film.film_id
Film_actor	film_actor.film_id = film.film_id
Film_category	film_category.film_id = film.film_id

3.9 Category Table

Category			
Key	**Columns**	**Data Type**	**Description**
Primary Key	category_id	serial	unique identification of category
	name	character varying (25)	name of category
	last_update	timestamp (6) without time zone	date and time of last update

Category Table Links To: N/A

Category Table Links From

Table	Link
Film_category	film_category.category_id = category.category_id

3.10 Language Table

Language			
Key	**Columns**	**Data Type**	**Description**
Primary Key	language_id	serial	unique identifier for language
	name	character (20)	name of language
	last_update	timestamp (6) without time zone	date and time of last update

Language Table Links To: N/A

Language Table Links From

Table	Link
Film	film.language_id = language.language_id

3.11 Address Table

Address			
Key	**Columns**	**Data Type**	**Description**
Primary Key	address_id	serial	unique identifier for address
	address	character varying (50)	address line 1
	address2	character varying (50)	address line 2
	district	character varying (20)	name of district
Foreign Key	city_id	small int	unique identifier of city
	postal_code	character varying (10)	postal code
	phone	character varying (20)	phone number
	last_update	timestamp (6) without time zone	date and time of last update

Address Table Links To

Table	Link
City	address.city_id = city.city_id

Address Table Links From

Table	Link
Staff	staff.address_id = address.address_od
Customer	customer.adderss_id = address.address_od

Store	store.address_id = address.address_id

3.12 City Table

City			
Key	**Columns**	**Data Type**	**Description**
Primary Key	city_id	serial	unique identifier for city
	city	character varying (50)	name of city
Foreign Key	country_id	small int	unique identifier for country
	last_update	timestamp (6) without time zone	date and time of last update

City Table Links To

Table	Link
Country	city.country_id = country.country_id

City Table Links From

Table	Link
Address	address.city_id = city.city_id

3.13 Country Table

Country			
Key	**Columns**	**Data Type**	**Description**
Primary Key	country_id	serial	unique identifier for country
	country	character varying (50)	name of country
	last_update	timestamp (6) without time zone	date and time of last update

Country Table Links To: N/A

Country Table Links From

Table	Link
City	city.country_id = country.country_id