

ROCKBUSTER STEALTH LLC

Data Dictionary

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Table of Contents

1. Fact Tables

1.1	payment	3
1.2	rental	4

2. Dimension Tables

2.1	film_actor	5
2.2	actor	5
2.3	inventory	6
2.4	film	7
2.5	language	8
2.6	film_category	8
2.7	category	9
2.8	customer	10
2.9	store	11
2.10	staff	12
2.11	address	13
2.12	city	14
2.13	country	14

3.	ERD (Entity Relationship Diagram)	16
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1. Fact Tables

1.1

Table: payment		
Columns	Data Type	Description
payment_id	serial	Unique ID for the payment transaction.
customer_id	smallint	Unique ID for customer name.
staff_id	smallint	Unique ID for staff member involved in transaction.
rental_id	integer	Unique ID for the rental transaction.
amount	numeric	Payment amount made for rental transaction.
payment_date	timestamp without time zone	Payment transaction date and time, stored without a time zone.

Links to

Table	Join
rental	payment.payment_id = rental.payment_id
customer	payment.customer_id = customer.customer_id
staff	payment.staff_id = staff.staff_id
rental	payment.rental_id = rental.rental_id

Linked from

Table	Join
(none)	

Unique keys

Key	Type
payment_id	Primary
customer_id	Foreign
staff_id	Foreign
rental_id	Foreign

1.2

Table: rental		
Columns	Data Type	Description
rental_id	serial	Unique ID for the rental transaction.
rental_date	timestamp without time zone	Date and time of rental transaction
inventory_id	integer	Unique ID for the specific copy of a film held in inventory.
customer_id	smallint	Unique ID for customer
return_date	timestamp without time zone	Date and time rental was returned.
staff_id	smallint	Unique ID for staff member involved in transaction.
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
inventory	rental.inventory_id = inventory.inventory_id
customer	rental.customer_id = customer.customer_id
staff	rental.staff_id = staff.staff_id

Linked from

Table	Join
payment	rental.rental_id = payment.rental_id

Unique keys

Key	Type
rental_id	Primary
inventory_id	Foreign
customer_id	Foreign
staff_id	Foreign

2. Dimension Tables

2.1

Table: film_actor		
Columns	Data Type	Description
actor_id	smallint	Unique ID for actor
film_id	smallint	Unique ID for film name
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
actor	film_actor.actor_id = actor.actor_id
film	film_actor.film_id = film.film_id

Linked from

Table	Join
(none)	

Unique keys

Key	Type
actor_id	Foreign
film_id	Foreign

2.2

Table: actor		
Columns	Data Type	Description
actor_id	serial	Unique ID for actor
first_name	character varying	Actor first name
last_name	character varying	Actor last name
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
(none)	

Linked from

Table	Join
film_actor	actor.actor_id = film_actor.actor_id

Unique keys

Key	Type
actor_id	Primary

2.3

Table: inventory		
Columns	Data Type	Description
inventory_id	serial	Unique ID for the specific copy of a film held in inventory.
film_id	smallint	Unique ID for film name
store_id	smallint	Unique ID for video rental store
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
film	inventory.film_id = film.film_id

Linked from

Table	Join
rental	inventory.inventory_id = rental.inventory_id

Unique keys

Key	Type
inventory_id	Primary
film_id	Foreign

2.4

Table: film		
Columns	Data Type	Description
film_id	serial	Unique ID for film name
title	character varying	Film name
description	text	One sentence description of film story content
release_year	integer	Year film was released
language_id	smallint	Unique ID for film language
rental_duration	smallint	Duration in number of days measuring the last time film was rented
rental_rate	numeric	Rental cost the last time film was rented
length	smallint	Film length in minutes
replacement_cost	numeric	Cost to replace film
rating	mpaa_rating	Rating of film (mpaa rating)
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.
special_features	text	Special features of the film such as trailers, deleted scenes, commentaries, if applicable.
fulltext	tsvector	A text string of key words parsed from the film name and description

Links to

Table	Join
language	film.language_id = language.language_id

Linked from

Table	Join
film_actor	film.film_id = film_actor.film_id
inventory	film.film_id = inventory.film_id
film_category	film.film_id = film_category.film_id

Unique keys

Key	Type
film_id	Primary
language_id	Foreign

2.5

Table: language		
Columns	Data Type	Description
language_id	serial	Unique ID for language name
name	character	Language name
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
(none)	

Linked from

Table	Join
film	language.language_id = film.language_id

Unique keys

Key	Type
language_id	Primary

2.6

Table: film_category		
Columns	Data Type	Description
film_id	smallint	Unique ID for film name
category_id	smallint	Unique ID for film category
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
film	film_category.film_id = film.film_id
category	film_category.category_id = category.category_id

Linked from

Table	Join
(none)	

Unique keys

Key	Type
film_id	Primary
category_id	Foreign

2.7

Table: category		
Columns	Data Type	Description
category_id	serial	Unique ID for film category
name	character varying	Film category name
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
(none)	

Linked from

Table	Join
film_category	category.category_id = film_category.category_id

Unique keys

Key	Type
category_id	Primary

2.8

Table: customer		
Columns	Data Type	Description
customer_id	serial	Unique ID for customer
store_id	smallint	Unique ID for video store
first_name	character varying	Customer first name
last_name	character varying	Customer last name
email	character varying	Customer email
address_id	smallint	Unique ID for customer address
activebool	boolean	If customer still active, "true" value. If inactive, "false" value.
create_date	date	Original date customer record first created.
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.
active	integer	If customer still active, "1" value.

Links to

Table	Join
address	customer.address_id = address.address_id

Linked from

Table	Join
payment	customer.customer_id = payment.customer_id
rental	customer.customer_id = rental.customer_id

Unique keys

Key	Type
customer_id	Primary
address_id	Foreign

2.9

Table: store		
Columns	Data Type	Description
store_id	serial	Unique ID for video rental store
manager_staff_id	smallint	Unique ID for store manager
address_id	smallint	Unique ID for home address of store manager.
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
staff	store.manager_staff_id = staff.staff_id
address	store.address_id = address.address_id

Linked from

Table	Join
(none)	

Unique keys

Key	Type
store_id	Primary
manager_staff_id	Foreign
address_id	Foreign

2.10

Table: staff		
Columns	Data Type	Description
staff_id	serial	Uniqued ID for staff member
first_name	character varying	Staff member first name
last_name	character varying	Staff member last name
address_id	smallint	Unique ID for home address of staff member.
email	character varying	Email address for staff member
store_id	smallint	Unique ID for video rental store
active	boolean	Staff member still employed at company? "true" for yes, "false" for no.
username	character varying	Staff member username to access company's transaction system.
password	character varying	Staff member password to access system.
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.
picture	bytea	Staff member photo, if available.

Links to

Table	Join
address	staff.address_id = address.address_id

Linked from

Table	Join
payment	staff.staff_id = payment.staff_id
rental	staff.staff_id = rental.staff_id
store	staff.staff_id = store.manager_staff_id

Unique keys

Key	Type
staff_id	Primary
address_id	Foreign

2.11

Table: address		
Columns	Data Type	Description
address_id	serial	Unique ID for address
address	character varying	Address line 1
address2	character varying	Address line 2
district	character varying	Province or state
city_id	smallint	Unique ID for city name
postal_code	character varying	Postal code if applicable
phone	character varying	Phone number
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
city	address.city_id = city.city_id

Linked from

Table	Join
customer	address.address_id = customer.address_id
store	address.address_id = store.address_id
staff	address.address_id = staff.address_id

Unique keys

Key	Type
address_id	Primary
city_id	Foreign

2.12

Table: city		
Columns	Data Type	Description
city_id	serial	Unique ID for city name
city	character varying	City name
country_id	smallint	Unique ID for country name
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
country	city.country_id = country.country_id

Linked from

Table	Join
address	city.city_id = address.city_id

Unique keys

Key	Type
city_id	Primary
country_id	Foreign

2.13

Table: country		
Columns	Data Type	Description
country_id	serial	Unique ID for country name
country	character varying	Country name
last_update	timestamp without time zone	The date and time when the record was last modified, stored without a time zone.

Links to

Table	Join
(none)	

Linked from

Table	Join
city	country.country_id = city.country_id

Unique keys

Key	Type
country_id	Primary

3. ERD (Entity Relationship Diagram)

