




Rockbuster Stealth LLC

Data Dictionary

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Task 3.10

Legend

 Primary Key

 Primary Key

 Foreign Key

(FK) Foreign Key

Entity Relationship Diagram




Rockbuster Stealth LLC

Rockbuster Stealth is a movie rental company with stores all over the world.

This is a Rockbuster Stealth database dictionary with an ERD in a snowflake schema.

a. Fact Tables


Payment

Columns	Data Type	Description
 payment_id	SERIAL	<u>Primary Key</u> : Unique payment transaction identity number
(FK) customer_id	SMALLINT	<u>Foreign Key</u> : Customer specific identity number
(FK) staff_id	SMALLINT	<u>Foreign Key</u> : Staff specific identity number
(FK) rental_id	INTEGER	<u>Foreign Key</u> : Rental specific identity number
amount	NUMERIC (5,2)	Amount paid for the rental
payment_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of payment transaction

Payment Links to:-

Table	Join	Description
customer	payment.customer_id = customer.customer_id	Foreign key constraint referencing customer_id
staff	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff_id
rental	payment.rental_id = rental.rental_id	Foreign key constraint referencing rental_id

Rental

Columns	Data Type	Description
 rental_id	SERIAL	<u>Primary Key</u> : Unique rental specific identity number
rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time at the beginning of the rental
(FK) inventory_id	INTEGER	<u>Foreign Key</u> : Rental item's inventory identity number
(FK) customer_id	SMALLINT	<u>Foreign Key</u> : Customer specific identity number
return_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time rental must be returned
(FK) staff_id	SMALLINT	<u>Foreign Key</u> : Staff specific identity number
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated


Rental Links to:-

Table	Join	Description
inventory	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory_id
customer	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer_id
staff	rental.staff_id = staff.staff_id	Foreign key constraint referencing staff_id

Rental Links from:-

Table	Join	Description
payment	payment.rental_id = rental.rental_id	Foreign key constraint referencing rental_id


Store:

Columns	Data Type	Description
 store_id	SERIAL	<u>Primary Key</u> : Unique store specific identity number
(FK) manager_staff_id	SMALLINT	<u>Foreign Key</u> : Manager staff specific identity number
(FK) address_id	SMALLINT	<u>Foreign Key</u> : Address specific identity number
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated

Store Links to:

Table	Join	Description
staff	store.manager_staff_id = staff.manager_staff_id	Foreign key constraint referencing manager_staff_id
address	store.address_id = address.address_id	Foreign key constraint referencing address_id

Inventory

Columns	Data Type	Description
 inventory_id	SERIAL	<u>Primary Key</u> : Unique rental item inventory identity number
(FK) film_id	SMALLINT	<u>Foreign Key</u> : Film's specific identity number
store_id	SMALLINT	Store specific identity number
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated

Inventory Links to:

Table	Join	Description
film	inventory.film_id = film.film_id	Foreign key constraint referencing film_id

Inventory Links from:

Table	Join	Description
rental	rental.inventory_id = inventory.inventory_id	Foreign key constraint referencing inventory_id

Film_Category

Columns	Data Type	Description
(FK) film_id	SMALLINT	<u>Foreign Key</u> : Unique film specific identity number
(FK) category_id	SMALLINT	<u>Foreign Key</u> : Unique category's specific identity number
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated

Film_Category Links to:

Table	Join	Description
film	film_category.film_id = film.film_id	Foreign key constraint referencing film_id
category	film_category.category_id = category.category_id	Foreign key constraint referencing category_id


Film_Actor

Columns	Data Type	Description
(FK) actor_id	SMALLINT	<u>Foreign Key</u> : Unique actor specific identity number
(FK) film_id	SMALLINT	<u>Foreign Key</u> : Unique film specific identity number
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated

Film_actor Links to:

Table	Join	Description
actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor_id
film	film_actor.film_id = film.film_id	Foreign key constraint referencing film_id

b. Dimension Tables**Customer**

Columns	Data Type	Description
 customer_id	SERIAL	<u>Primary Key</u> : Unique customer specific identity number
store_id	SMALLINT	Store specific identity number
first_name	CHARACTER VARYING (45)	Customer's first name
last_name	CHARACTER VARYING (45)	Customer's last name
email	CHARACTER VARYING (50)	Customer's email address
(FK) address_id	SMALLINT	<u>Foreign Key</u> : Address specific identity number
activebool	BOOLEAN	Reports back if the customer is still active using "True", "False" & "unknown"
create_date	DATE	Date the customer identity number was created
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated
active	INTEGER	Reports back if the customer is still active using "1" and "0"


Customer Links to:

Table	Join	Description
address	customer.address_id = address.address_id	Foreign key constraint referencing address_id

Customer Links from:-

Table	Join	Description
rental	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer_id

Staff

Columns	Data Type	Description
 staff_id	SERIAL	<u>Primary Key</u> : Unique staff specific identity number
first_name	CHARACTER VARYING (45)	Staff's first name
last_name	CHARACTER VARYING (45)	Staff's last name
(FK) address_id	SMALLINT	<u>Foreign Key</u> : Address specific identity number
email	CHARACTER VARYING (50)	Staff's email address
store_id	SMALLINT	Store specific identity number
active	BOOLEAN	Reports back if the customer is still active using "True", "False" & "unknown"
username	CHARACTER VARYING (16)	Staff's email address
password	CHARACTER VARYING (14)	Staff's password
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated
picture	BYTEA	Staff's picture for identification


Staff Link to:

Table	Join	Description
address	staff.address_id = address.address_id	Foreign key constraint referencing address_id

Staff Links from:-

Table	Join	Description
payment	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff_id

Address

Columns	Data Type	Description
 address_id	SERIAL	<u>Primary Key</u> : Unique address specific identity number
address	CHARACTER VARYING (50)	Address details
address2	CHARACTER VARYING (50)	Address details, line 2
district	CHARACTER VARYING (20)	Address district
(FK) city_id	SMALLINT	<u>Foreign Key</u> : City specific identity number
postal_code	CHARACTER VARYING (10)	Address's postal code
phone	CHARACTER VARYING (20)	Contact phone number
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated


Address Link to:

Table	Join	Description
city	address.city_id = city.city_id	Foreign key constraint referencing city_id

Address Links from:-

Table	Join	Description
store	store.address_id = address.address_id	Foreign key constraint referencing address_id

City

Columns	Data Type	Description
 city_id	SERIAL	<u>Primary Key</u> : Unique city specific identity number
city	CHARACTER VARYING (50)	City name
(FK) country_id	SMALLINT	<u>Foreign Key</u> : Country specific identity number
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated


City Link to:

Table	Join	Description
country	city.country_id = country.country_id	Foreign key constraint referencing country_id

City Links from:-

Table	Join	Description
address	address.city_id = city.city_id	Foreign key constraint referencing city_id


Country

Columns	Data Type	Description
 country_id	SERIAL	<u>Primary Key</u> : Unique country specific identity number
country	CHARACTER VARYING (50)	Country name
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated

Country Links from:-

Table	Join	Description
city	city.country_id = country.country_id	Foreign key constraint referencing city_id


Actor

Columns	Data Type	Description
 actor_id	SERIAL	<u>Primary Key</u> : Unique actor specific identity number
first_name	CHARACTER VARYING (45)	Actor's first name
last_name	CHARACTER VARYING (45)	Actor's last name
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated

Actor Links from:-

Table	Join	Description
film_actor	film.actor_id = actor.actor_id	Foreign key constraint referencing actor_id

Film

Columns	Data Type	Description
 film_id	SERIAL	<u>Primary Key:</u> Unique film specific identity number
title	CHARACTER VARYING (255)	Name of the rental film
description	TEXT	Description of the film
release_year	year	Year the film was released
(FK) language_id	SMALLINT	<u>Foreign Key:</u> Unique language specific identity number
rental_duration	SMALLINT	Length of rental in days
rental_rate	NUMERIC (4,2)	Rate of film rental
length	SMALLINT	Minute length of the film
replacement_cost	NUMERIC (5,2)	Cost if film had to be replaced
rating	Mpaa_rating	Restriction or warning rating
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated
special_features	TEXT []	Additional film related features
fulltext	TSVECTOR	Full-text search engine


Film Links to:-

Table	Join	Description
language	film.language_id = language.language_id	Foreign key constraint referencing language_id

Film Links from:-

Table	Join	Description
inventory	inventory.film_id = film.film_id	Foreign key constraint referencing film_id


Category

Columns	Data Type	Description
 category_id	SERIAL	<u>Primary Key:</u> Unique category specific identity number
name	CHARACTER VARYING (25)	Category name
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated

Category Links from:-

Table	Join	Description
film_category	film_category.category_id = category.category_id	Foreign key constraint referencing category_id

Language

Columns	Data Type	Description
 language_id	SERIAL	<u>Primary Key:</u> Unique language specific identity number
name	CHARACTER VARYING (20)	Category name
last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time this entry was last updated

Language Links from:-

Table	Join	Description
film	film.language_id = language.language_id	Foreign key constraint referencing language_id

