

ROCKBUSTER STEALTH

Data Dictionary

Rachel Perry

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1. Entity Relationship Diagram



2.FACT TABLES

2.1 PAYMENT

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Payment_ID 	Serial	ID of Payment
Customer_ID 	Small Int	ID of Customer
Staff_ID 	Small Int	ID of staff
Rental_ID 	Integer	ID of rental
Amount	Numeric (5,2)	Cost of rental
Payment date	Time Stamp (6) w/o time zone	Date payment was made

Links to:

Table	Join
Rental	Payment.rental_id = rental.rental_id
Customer	Payment.customer_id = Customer.customer_id
Staff	Payment.staff_id=staff.staff_id

Linked from:





Does not link from any other tables.

Unique Keys

Column	Key Type
payment_id	Primary Key
customer_id	Foreign Key
staff_id	Foreign Key
rental_id	Foreign Key

2.2 RENTAL

Columns  Primary Key  Foreign Key

Column	Data Type	Description
rental_id 	serial	ID of rental
rental_date	Time stamp (6) w/o time zone	Date of Rental
Inventory id 	integer	ID of inventory
customer_id 	Small integer	ID of customer
return_date	Timestamp (6) wo time zone	Date of rental return
staff id 	Small integer	ID of staff
last_update	Timestamp (6) wo time zone	Date the table was last updated

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

Column	Key Type
rental_id	Primary Key
Inventory_id	Foreign Key
Customer_id	Foreign Key
Staff_id	Foreign Key

3.DIMENSION TABLES

3.1 Actor

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Actor ID 	Serial	ID for actor
First name	Character varying 45	Actor first name
Last name	Character varying 45	Actor last name
Last update	Timestamp (6) wo time zone	Last update for table

Links to:

Does not link to any tables.

Links from:



Table	Join
Film Actor	Actor.actor_id = Film_actor.actor_id

Unique Keys

Column	Key Type
Actor_id	Primary Key

3.2 Address

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Address id 	serial	ID of address
address	Character varying 50	Address line 1
Address2	Character varying 50	Address line 2
district	Character varying 20	district
City id 	Small int	Id of city
Postal code	Character varying 10	Postal code
phone	Character varying 20	Phone number of household
Last update	Timestamp (6) wo time zone	Last update of table

Links to:

Table	Join
City	Address.city_id = City.city_id

Links From:



Table	Join
Customer	Address.address_id = customer.address_id
Staff	Address.address_id = staff.address_id
Store	Address.address_id = Store.address_id

Unique Keys

Column	Key Type
Address_id	Primary Key
City_id	Foreign Key

3.3 Customer

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Customer id 	serial	ID of customer
Store id	Small int	Id 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 of customer
Address id 	Small int	ID of address
Active bool	boolean	Whether customer is active
Create date	date	Date the customer profile was made

Links to:

Table	Join
Address	Customer.address_id = Address.address_id



Links From:


Table	Join
Payment	Customer.customer_id = Payment.customer_id
Rental	Customer.customer_id = Rental.customer_id

Unique Keys

Column	Key Type
Customer_id	Primary Key
Address_id	Foreign Key

3.4 Category

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Category_id 	serial	ID of category
name	Character varying	Category name
Last_update	Timestamp (6) wo time zone	Last update of table

Links to:

Does not link to any tables.



Links From:



Table	Join
Film_category	Category.category_id = Film_category.category_id

Unique Keys

Column	Key Type
Category_id	Primary Key

3.5 City

Columns  Primary Key  Foreign Key

Column	Data Type	Description
City_id 	serial	ID of city
City	Character varying 50	Name of city
Country ID 	Small int	ID of country
Last update	Timestamp (6) wo time zone	Last update of table

Links to:

Table	Join
Country	City.country_id = Country.country_id


Links From:


Table	Join
Address	City.city_id = Address.city_id

Unique Keys

Column	Key Type
City_id	Primary Key

3.6 Country

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Country ID 	serial	ID of country
Country	Charactervarying 50	Name of country
Last update	Timestamp (6) wo time zone	Last update of table

Links to:

Does not link to any other table.

Links From:



Table	Join
City	Country.country_id = City.country_id

Unique Keys

Column	Key Type
Country_id	Primary Key

3.7 Film

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Film ID 	serial	ID for film
Title	Character varying 45	Title of film
description	text	Description of film
Release year	year	Year film was released
Language ID 	Small int	ID for language
Rental duration	Small int	Duration of rental
Rental rate	Numeric (4,2)	Cost of rental
Length	Small int	Length of film
Replacement cost	Numeric (5,2)	Cost to replace film
rating	MPAA rating	Rating of movie
Last update	Timestamp (6) wo time zone	Last update for table
Special features	text	Features of film
Full text	tsvector	Film index

Links to:

Table	Join
Language	Film.language = Language.language.id

Links 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

Column	Key Type
Film_id	Primary Key
Language_id	Foreign Key

3.8 Film Actor

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Actor ID  	Small Int	ID for actor
Film ID  	Small Int	ID for film
Last update	Timestamp (6) wo time zone	Last update for table

Links to:

Table	Join
Actor	Film_actor.actor_id = actor.actor_id
Film	Film_actor.film_id = film.film_id


Links From:





Does not link from any other tables.

Unique Keys

Column	Key Type
Actor_id	Primary Key
Film_id	Primary Key

3.9 Film Category

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Film ID  	Small int	ID for film
Category ID  	Small int	ID for category
Last update	Timestamp (6) wo time zone	Last update for table

Links to:

Table	Join
Film	Film_category.film_id = film.film_id
Category	Film_category.category_id = category.category_id

Links From:


Does not link from any other tables.

Unique Keys

Column	Key Type
Film_id	Primary Key
Category_id	Primary Key

3.10 Inventory

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Inventory ID 	Serial	ID for inventory item
Film ID 	Small int	ID for film
Store ID	Small int	ID for store
Last update	Timestamp (6) wo time zone	Last update for table

Links to:

Table	Join
Film	Inventory.film_id = film.film_id

Links From:


Table	Join
Rental	Inventory.inventory_id = rental.inventory_id

Unique Keys

Column	Key Type
Inventory_id	Primary Key
Film_id	Foreign Key

3.11 Language

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Language ID 	Serial	ID of language
Name	Character 20	Name of language
Last update	Timestamp (6) wo time zone	Last update for table

Links to:

Does not link to any other tables

Links From:




Table	Join
Film	language.language_id = film.language_id

Unique Keys

Column	Key Type
Language_id	Primary Key

3.13 Store

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Store ID 	Serial	ID of Store
Manager staff ID 	Small Int	ID of Manager
Address ID 	Small Int	ID of Address
Last update	Timestamp (6) wo time zone	Time/date of last update of table

Links to:

Table	Join
Staff	Store.manager_staff_id = staff.staff_id
Address	Store.address_id=address.address_id

Links From:



Does not link from any other table

Unique Keys

Column	Key Type
Store_id	Primary Key
Manager_staff_id	Foreign Key
Address_id	Foreign Key

3.11 Staff

Columns  Primary Key  Foreign Key

Column	Data Type	Description
Staff ID 	serial	ID of staff
First name	Character varying 45	First name of staff
Last name	Character varying 45	Last name of staff
Address ID 	Small int	ID for address
email	Character varying 50	Email of staff
Store ID	Small int	ID of store
Active	boolean	Whether staff is active
username	Character varying 16	Staff username
Password	Character varying 40	Staff password
Last update	Timestamp (6) wo time zone	Last update for table
picture	Bytea	Picture of staff

Links to:

Table	Join
Address	Staff.address_id=address.address_id

Links From:

Table	Join
Rental	Staff.staff_id = rental.staff_id
Payment	Staff.staff_id = payment.staff_id
Store	Staff.staff_id = store.staff_id

Unique Keys

Column	Key Type
Staff_id	Primary Key
Address_id	Foreign Key