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Rockbuster Stealth

DATA DICTIONARY
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ROCKBUSTER STEALTH

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1. Entity Relationship Diagram (ERD)



2. Tables

2.1 Fact Table

Rental:

Columns	Datatype	Description
Rental_id	Integer	Primary key; surrogate field for payment value
Rental_date	Timestamp without time zone	Date that the units were rented out of the system
Inventory_id	Integer	Foreign key; unique ID that links to inventory table to retrieve inventory details
Customer_id	Smallint	Foreign key; unique ID for customer details
Return_date	Timestamp without time zone	Date the rented units were returned back to the system
Staff_id	Smallint	Foreign key; Unique ID for staff details
Last_update	Timestamp without time zone	Date for when the system last updated this specific record in the table

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

Links from:

Table	Join
Payment	Payment.rental_id = rental.rental_id

Payment:

Columns	Datatype	Description
Payment_id	Serial	Primary Key; surrogate field for payment value
Customer_id	Smallint	Foreign Key; unique ID for customer details
Staff_id	Smallint	Foreign Key; unique ID for staff details
Rental_id	Integer	Foreign Key; unique ID for rental/order information
Amount	Numeric	Total invoice amount related to specific rental transactions
Payment_date	Timestamp without time zone	Transaction date

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

2.2 Dimension Table:

Film_actor

Columns	Datatype	Description
Actor_id	Smallint	Foreign key; unique ID connecting to Actor Table
Film_id	Smallint	Foreign key; unique ID connecting to Film Table
Last_update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links to:

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

Inventory

Columns	Datatype	Description
Inventory_id	Serial	Primary key; unique ID used to define a combination of specific film and item location
Film_id	Smallint	Foreign key; unique _ID connecting to Film Table
Store_id	Smallint	Foreign key; unique ID connecting to Sore Table
Last_updated	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links to:

Table	Join
Film	Inventory.film_id = film.film_id
Store	Inventory.store_id = store.store_id

Links from:

Table	Join
Rental	Rental.inventory_id = inventory.inventory_id

Actor

Columns	Datatype	Description
Actor_id	Serial	Foreign key; unique ID connecting to Actor Table
First_name	Character varying	First name of actor
Last_name	Character varying	Last name of actor
Last update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links from:

Table	Join
Film_actor	Film_actor.actor_id = actor.actor_id

Language

Columns	Datatype	Description
Language_id	Serial	Primary key; Unique id referencing language details
name	Character	Name of language
Last update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links from:

Table	Join
Film	Film.language_id = language.language_id

Category

Columns	Datatype	Description
category_id	Serial	Primary key; Unique id referencing category/genre of film
name	Character varying	Name of category
Last update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links from:

Table	Join
Film_category	Film_actor.category_id = category.category_id

Film_category

Columns	Datatype	Description
film_id	smallint	foreign key; Unique id connecting to film table
Category_id	smallint	Foreign key; unique Id connecting to category
Last update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links to:

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

Store

Columns	Datatype	Description
Store_id	serial	Primary key;unique ID referencing Store
Manager_staff_id	smallint	Foreign key; linking to manager of store details
Address_id	smallint	Foreign key, linking to store address details
Last update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links to:

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

Address

Columns	Datatype	Description
Address_id	Serial	Primary key; unique ID referencing address details
Address	Character varying	First line of address, typically street name & number
Address2	Character varying	Second line of address, typically unused
District	Character varying	State/ province/ county of given address
City_id	smallint	Foreign key, linking to city details
Postal_code	Character varying	Combination of text and numbers for postal code or ZIP
Phone	Character varying	Number of combinations for address contacts Phone number
Last_update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links to:

Table	Join
City	Address.city_id = city.city_id

Links from:

Table	Join
Store	Store.address_id = address.address_id
Staff	Staff.address_id = address.address_id
Customer	Customer.address_id = address.address_id

City

Columns	Datatype	Description
City_id	Serial	Primary key; unique ID referencing city details
City	Character varying	Name of city using text and number
Country_id	smallint	Foreign key, linking to country details
Last_update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links to:

Table	Join
Country	City.country_id = country.country_id

Links from:

Table	Join
Address	Address.city_id = city.city_id

Country

Columns	Datatype	Description
Country_id	Serial	Primary key; unique ID referencing country details
Country	Character varying	Name of country using text and number
Last_update	Timestamp without time zone	Date for when the system last updated this specific record in the table

Links from:

Table	Join
City	City.country_id = country.country_id

Customer

Columns	Datatype	Description
Customer_id	Serial	Primary key; unique Id for each customer record
Store_id	Smallint	Unique ID meant to link up to store dimension
First_name	Character varying	First name of customer
Last_name	Character varying	Last name of customer
Email	Character varying	Mixed text/number/special character
Address_id	Smallint	Foreign key that links to address key in address table
Activebool	Boolean	True/false statement
Create_date	date	Date the record was created
Last_update	Timestamp without time zone	Date for when the system last updated this specific record in the table
active	integer	Binary 1-0 field indicate whether the customer is still active

Links to:

Table	Join
Address	Customer.address_id = address.address_id

Links from:

Table	Join
Rental	Rental.customer_id = customer.customer_id
Payment	Payment.customer_id = customer.customer_id

Staff

Columns	Datatype	Description
staff_id	Serial	Primary key; unique Id for each staff record
First_name	Character varying	First name of customer
Last_name	Character varying	Last name of customer
Address_id	Smallint	Foreign key that links to address key in address table
Email	Character varying	Mixed text/number/special character
Store_id	smallint	Unique ID meant to link up store dimension
Active	integer	Binary 1-0 field indicate whether the customer is still active
Username	Character varying	Mixed text/number/special character
password	Character varying	Mixed text/number/special character
Last_update	Timestamp without time zone	Date for when the system last updated this specific record in the table
Picture	Bytea	Staff image; presumably with restrictions on byte size

Links to:

Table	Join
Address	Staff.address_id = address.address_id

Links from:

Table	Join
Rental	Rental.staff_id = staff.staff_id
Store	Store.address_id = staff.address_id
Payment	Payment.staff_id = staff.staff_id

Film

Columns	Datatype	Description
Film_id	Serial	Mixe/staff/special character field for staff username details
title	Character varying	Mixed/staff/special character field for film title name
Description	Text	Text field that provides brief title overview
Release_year	Year	Date indicating the year of release
Language_id	Smallint	Foreign key, that links to address key in language table
Rental_duration	Smallint	Length of time the film was on loan
Rentail_rate	Numeric	Cost of overall rental period once returned
Length	Smallint	Length of film in minutes
Replacement_cost	Numeric	Replacement cost of rental unit is presumably lost or damaged by the customer
Rating	Mpaa_rating	Age rating provided by external rating boards
Last_update	Timestamp without time zone	Date for when the system last updated this specific record in the table
Special_features	Text	On disc extras available for the customer to view
fulltext	tsvector	Searchable terms/tags related to the film and its plot

Links to:

Table	Join
Language	Film.language_id = language.language_id

Links from:

Table	Join
Film_actor	Film_actor.film_id = film.film_id
Film_category	Film_category.film_id = film.film_id
Inventory	Inventory.film_id = film.film_id