ROCKBUSTER STEALTH

Data dictionary

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INTRODUCTION

This document contains a detailed description of the Rockbuster stealth company's database and data structure. It includes ERD along and description of fact and dimension tables. The ERD provides an overview of the main entities or columns and their relationship with each other through various keys. This data dictionary serves as a reference for all data analysts, engineers and business stakeholders who are working with this dataset.

Fact tables

Payment

Key	Columns	Data type	Description
Primary key	Payment_id	Serial	A unique id associated with payment
Foreign key	Customer_id	SMALLINT	A unique id assigned to every customer
Foreign key	Staff_id	SMALLINT	A unique id assigned to the staff
Foreign key	Rental_id	Integer	A unique id for every rental transaction
	Amount	Numeric	The total cost of the rent
	Payment date	Time stamp without timezone	The date and time when rental was paid.

- ## Rental

Key	Columns	Data type	Description
Primary key	Rental_id	Serial	A unique id for every rental transaction
	Rental date	Timestamp without time zone	The date and time when movie was rented
Foreign key	Inventory_id	Integer	A unique id for every inventory
Foreign key	Customer_id	SmallInt	A unique id for every customer

	Return_date	Timestamp without time zone	The date and time when movie was returned
Foreign key	Staff_id	SmallInt	A unique id for every staff
	Last_update	Timestamp without time zone	Date and time when rental was updated

Dimension tables

- **Film actor**

Key	Columns	Data type	Description
Foreign key	Actor_id	SMALLINT	A unique id for every actor in the film
Foreign key	Film_id	SMALLINT	A unique id for every film
	Last_update	Timestamp without time zone	Date and time when film was updated

- **Inventory**

Key	Columns	Data type	Description
Primary key	Inventory_id	Serial	A unique id for every rental unit
Foreign key	Film_id	SmallINT	A unique id for every film
	Store_id	SmallINT	A unique id for every store
	Last_updated	Timestamp without time zone	Date and time when inventory was updated

- **Store**

Key	Columns	Data type	Description
Primary key	Store_id	Serial	A unique id for store
	Manager_staff_id	Smallint	A unique id for staff manager
Foreign key	Address_id	Smallint	ID for address

- **Film category**

Key	Columns	Data type	Description
Primary key	Film_id	SMALLINT	A unique id assigned to every film
Foreign key	Category_id	SMALLINT	A unique id assigned to a film category
	Last_updated	Timestamp without time zone	Date and time when data was last updated

- **Customer**

Key	Columns	Data type	Description
Primary key	Customer_id	SERIAL	A unique id assigned to customer
	Store_id	SMALLINT	A unique id assigned to every store
	First_name	CHARACTER VARYING	First name of the customer
	Last_name	CHARACTER VARYING	Last name of the customer
	email	CHARACTER VARYING	Email address of the customer
Foreign key	Address_id	SMALLINT	A unique id assigned to customer address
	Activebool	BOOLEAN	Identifies if the customer is active in the system of not (True/False values)
	Create_date	Date	Date when customer was registered
	Last_update	Timestamp without time zone	Date when data was updated
	active	INTEGER	Identifies if the customer is active in the system or not (Integer values)

- **Staff**

Key	Columns	Data type	Description
Primary key	Staff_id	SERIAL	A unique id assigned to every staff
	First_name	CHARACTER VARYING	First name of the staff member
	Last_name	CHARACTER VARYING	Last name of the staff member
Foreign key	Address_id	SMALLINT	Address of the staff member

	email	CHARACTER VARYING	Email address of the staff
	Store_id	SMALLINT	A unique id assigned to the specific store
	Active	BOOLEAN	Identifies if the staff member is active in the system or not (TRUE/FALSE values)
	username	CHARACTER VARYING	Username of the staff member
	password	CHARACTER VARYING	Password of the staff member
	Last_updated	Timestamp without time zone	Date when data was updated
	picture	BYTEA	Picture of the staff member

Sub-dimension tables

- **Film**

Key	Columns	Data type	Description
Primary key	Film_id	SERIAL	A unique id for every film
	Title	Character VARYING(255)	Title of the film
	Description	Text	Summary of the film
	Release_year	Year	The year when the film was released
Foreign key	Language_id	SMALLINT	A unique id for language spoken in the film
	Rental_duration	SMALLINT	The duration for which the film is rented
	Rental_rate	NUMERIC (4,2)	The cost to rent the film
	Length	SMALLINT	The length of the film in minutes
	Replacement_cost	NUMERIC (5,2)	The cost to replace the film if it is lost
	Rating	Mpaa_rating	Motion Pictures Association of America rating system
	Last_update	Timestamp without time zone	The date and time when it was updated
	Special_features	TEXT	Additional features of film rental

	Fulltext	TSVECTOR	Key words associated with the film

- ## Category

Key	Columns	Data type	Description
Primary key	Category_id	SERIAL	A unique id for every category
	Name	CHARACTER VARYING (25)	Name of the film category
	Last_updated	Timestamp without time zone	Date and time when data was last updated

- ## Actor

Key	Columns	Data type	Description
Primary key	Actor_id	Serial	A unique id for every actor
	First_name	Character VARYING(45)	First name of the actor
	Last_name	Character VARYING(45)	Last name of the actor
	Last_update	Timestamp without time zone	Date and time when actor was updated.

- ## Language

Key	Columns	Data type	Description
Primary key	Language_id	SERIAL	A unique id for primary language in the film
	Name	CHARACTER (20)	Language spoken in the film
	Last_update	Timestamp without time zone	Date and time when data was updated

- ## Address

Key	Columns	Data type	Description
Primary key	Address_id	SERIAL	Unique address ID
	Address	VARCHAR	Street address
	Address 2	VARCHAR	Additional address info
Foreign key	City_id	INT	City
	Postal_code	VARCHAR	ZIP or postal code
	Phone	VARCHAR	Contact phone number
	Last_update	TIMESTAMP	Time and date of last data update

- **City**

KEY	Column	Data type	Description
Primary key	City_id	SERIAL	Unique city ID
	City	VARCHAR	City name
Foreign key	Country_id	INT2	Country reference

- **Country**

Key	Column	Data type	Description
Primary key	Country_id	SERIAL	Unique country ID
	Country	VARCHAR	Country name
	Last_update	TIMESTAMP	Time and date for last update