

ROCKBUSTER STEALTH

BUSINESS STRATEGY MEETING FOR NEW ONLINE VIDEO SERVICE

DATA DICTIONARY

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ENTITY RELATIONSHIP DIAGRAM



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PK = PRIMARY KEY

FK = FOREIGN KEY

FACT TABLES:

TABLE: PAYMENT

	Columns	Data Type	Description
PK	payment_id	INTEGER	id for the payment
FK	customer_id	SMALLINT	id of the customer
FK	staff_id	SMALLINT	id to the staff
FK	rental_id	INTEGER	The id of the rental data.
	amount	NUMERIC	Rental amount
	payment_date	TIMESTAMP WITHOUT TIME ZONE	Date of the payment due

Links to:

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

Links from: N/A

TABLE: RENTAL

	Columns	Data Type	Description
PK	rental_id	INTEGER	Unique rental identifier
	rental_date	TIMESTAMP WITHOUT TIME ZONE	Date of rental
FK	inventory_id	INTEGER	Unique inventory id
FK	customer_id	SMALLINT	Unique customer-id
	return_date	TIMESTAMP WITHOUT TIME ZONE	Date of return
FK	staff_id	SMALLINT	Unique staff id
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update

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

DIMENSIONS TABLE:

TABLE: STORE

	Columns	Data Type	Description
PK	store_id	INTEGER	Unique ID for store
FK	manager_staff_id	SMALLINT	ID for manager of store
FK	address_id	SMALLINT	Address ID for the store
	last_update	TIMESTAMP WITHOUT TIME ZONE	Last update of table

Links to:

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

Linked from:

N/A

TABLE: FILM ACTOR

	Columns	Data Type	Description
PK	actor_id	SMALLINT	id of an actor
PK	film_id	SMALLINT	id of the film
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update

Links to:

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

Linked from:

N/A

TABLE: INVENTORY

	Columns	Data Type	Description
PK	inventory_id	INTEGER	Unique id of the inventory
FK	film_id	SMALLINT	Unique id of the film.
	store_id	SMALLINT	Unique id of the store
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of last update

Links to:

Table	Join
Film	inventory.film_id = film.film_id

Linked from:

Table	Join
Rental	rental.inventory_id = inventory.inventory_id

TABLE: FILM CATEGORY

	Columns	Data Type	Description
PK	film_id	smallint	Unique ID for film
PK	category_id	smallint	Unique ID for category
	last_update	timestamp without time zone	Last update of table

Links to:

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

Linked from:

N/A

TABLE: CUSTOMER

	Columns	Data Type	Description
PK	customer_id	INTEGER	Id of the customer
FK	store_id	SMALLINT	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 address of the customer
FK	address_id	SMALLINT	Unique identifier of the address
	activebool	BOOLEAN	Whether a customer is active
	create_date	DATE	Date of customer profile creation
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update
	active	INTEGER	Active status represented by 0 or 1

Links to:

Table	Join
Address	customer.address_id = address.address_id

Linked from:

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

TABLE: STAFF

	Columns	Data Type	Description
PK	staff_id	INTEGER	Unique identifier of a staff member
	first_name	CHARACTER VARYING(45)	First name of the staff member
	last_name	CHARACTER VARYING(45)	Last name of the staff member
FK	address_id	SMALLINT	Unique id of the address
	email	CHARACTER CARRYING(50)	Email address of staff member
FK	store_id	SMALLINT	id of the store
	active	BOOLEAN	When the staff member is active
	username	CHARACTER VARYING(16)	Staff member's username
	password	CHARACTER VARYING(40)	Staff member's password
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update
	picture	BYTEA	Picture of the staff member

Links to:

Table	Join
Address	staff.address_id = address.address_id

Linked from:

Table	Join
Payment	payment.staff_id = staff.staff_id
Rental	rental.staff_id = staff.staff_id
Store	store.manager_staff_id = staff.staff_id

TABLE: ACTOR

	Columns	Data Type	Description
PK	actor_id	INTEGER	id of the 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	Time of the last update

Links to:

N/A

Linked from:

Table	Join
Film Actor	film_actor.actor_id = actor.actor_id

TABLE: FILM

	Columns	Data Type	Description
PK	film_id	INTEGER	Id of the film
	title	CHARACTER VARYING(255)	Title of film
	description	TEXT	Description of film
	release_year	INTEGER	Year of film release
FK	language_id	SMALLINT	Language of film
	rental_duration	SMALLINT	Duration of rental
	rental_rate	NUMERIC	Rate during the rental
	length	SMALLINT	Length of film
	replacement_cost	NUMERIC	Replacement cost of film
	rating	USER-DEFINED	Rating of film
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update
	special_features	ARRAY	Special features of the film
	fulltext	TSVECTOR	Film index

Links to:

Table	Join
Language	film.language_id = language.language_id

Linked from:

Table	Join
Film Actor	film_actor.film_id = film.film_id
Inventory	inventory.film_id = film.film_id
Film Category	film_category.film_id = film.film_id

TABLE: CATEGORY

	Columns	Data Type	Description
PK	category_id	INTEGER	id of the category
	name	CHARACTER VARYING(25)	Name of category
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update

Links to:

N/A

Linked from:

Table	Join
Film Category	film_category.category_id = category.category_id

TABLE: ADDRESS

	Columns	Data Type	Description
PK	address_id	INTEGER	Unique ID for address
	address	CHARACTER VARYING(50)	Address
	address2	CHARACTER VARYING(50)	Address line 2
	district	CHARACTER VARYING(20)	District
FK	city_id	SMALLINT	ID of city
	postal_code	CHARACTER VARYING(10)	Postal code
	phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP WITHOUT TIME ZONE	Last update of the table

Links to:

Table	Join
City	address.city_id = city.city_id

Linked from:

Table	Join
Customer	customer.address_id = address.address_id
Staff	staff.address_id = address.address_id
Store	store.address_id = address.address_id

TABLE: LANGUAGE

	Columns	Data Type	Description
PK	language_id	INTEGER	Unique identifier of language
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update

Links to: N/A

Linked from:

Table	Join
Film	film.language_id = language.language_id

TABLE: CITY

	Columns	Data Type	Description
PK	city_id	INTEGER	Unique id of the city
	city	CHARACTER VARYING(50)	Name of city
FK	country_id	SMALLINT	id of country
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update

Links to:

Table	Join
Country	city.country_id = country.country_id

Linked from:

Table	Join
Address	address.city_id = city.city_id

TABLE: COUNTRY

	Columns	Data Type	Description
PK	country_id	INTEGER	id of the country
	country	CHARACTER VARYING(50)	Name of country
	last_update	TIMESTAMP WITHOUT TIME ZONE	Time of the last update

Links to:

N/A

Linked from:

Table	Join
City	city.country_id = country.country_id

