

Rockbuster Stealth

Data Dictionary

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Data Storage & Structure

Rockbuster Entity Relationship Diagram (ERD):



Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. Facing stiff competition from streaming services such as Netflix and Amazon Prime, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service in order to stay competitive.

Legend Key:







= primary key



= foreign key





Fact Table:
Payment

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	payment_id	serial	Unique number identifying each payment transaction
	customer_id	smallint	Unique customer ID
	staff_id	smallint	Unique Staff ID
	rental_id	integer	Unique ID number for each rental instance
	amount	numeric(5,2)	Amount of payment in USD
	payment_date	timestamp(6) w/o time zone	Date and time the payment was made

Link to:

Table	Join
customer	payment.customer_id = customer.customer_id
staff	payment.staff_id = staff.staff_id
rental	payment.rental_id = rental.rental_id

Dimension Table: Rental

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	rental_id	serial	Unique ID number used for primary key for rentals.
	rental_date	Timestamp(6) w/o time zone	Date and time for the rental
	inventory_id	integer	Unique inventory ID
	customer_id	smallint	Unique customer ID
	return_date	timestamp(6) w/o time zone	Date and time of rental return
	staff_id	smallint	Unique Staff ID
	last_update	timestamp(6) w/o time zone	Date and time of last update of product status




Link to:

Table	Join
customer	rental.customer_id = customer.customer_id
inventory	rental.inventory_id = inventory.inventory_id
staff	rental.staff_id = staff.staff_id

Link from:

Table	Join
payment	payment.rental_id = rental.rental_id

Dimension Table: Store

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	store_id	integer	Unique Store ID
	manager_staff_id	smallint	Unique Manager Staff ID
	address_id	smallint	Unique Address ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update



Link to:

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

Link from:

Table	Join
staff	staff.store_id = store.store_id
customer	customer.store_id= store.store_id
inventory	inventory.store_id = store.store_id



Dimension Table: Film_Actor

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	actor_id	smallint	Unique Actor ID
	film_id	smallint	Unique Film ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links to:

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




Dimension Table: Film_Category

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	film_id	smallint	Unique Film ID
	category_id	smallint	Unique Category ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links to:

Table	Join
film	film_category.film_id = film.film_id
category	film_category.store_id = category.store_id

Dimension Table: Inventory

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	inventory_id	serial	Unique Actor ID
	film_id	smallint	Unique Film ID
	store_id	smallint	Unique Store ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update




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

Dimension Table: Customer

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	customer_id	serial	Unique Customer ID
	store_id	smallint	Unique Store ID
	first_name	character varying(45)	Customer First Name
	last_name	character varying(45)	Customer Last Name
	email	character varying(50)	Customer email
	address_id	smallint	Unique Address ID
	activebool	boolean	True or False on activity
	create_date	date	Date Customer Account was created
	last_update	timestamp(6) w/o time zone	Time and Date of last update
	active	integer	0 or 1 to indicate activity



Links to:

Table	Join
address	customer.address_id = address.address_id
store	customer.store_id = store.store_id

Links from:

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

Dimension Table: Staff

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	staff_id	serial	Unique Staff ID
	first_name	character varying(45)	Staff first name
	last_name	character varying(45)	Staff last name
	address_id	smallint	Unique Address ID
	email	character varying(50)	Staff Email
	store_id	smallint	Unique Store ID
	active	boolean	True or False on staff active
	username	character varying(16)	Staff username
	password	character varying(40)	Staff password
	last_update	timestamp(6) w/o time zone	Time and Date of last update
	picture	bytea	Photo of staff member


Links to:

Table	Join
address	staff.address_id = address.address_id

Links from:

Table	Join
payment	payment.staff_id = staff.staff_id
rental	customer.customer_id = rental.customer_id
store	store.manager_staff_id = staff.staff_id


Dimension Table: Actor

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	actor_id	serial	Unique actor ID
	first_name	character varying(45)	Actor first name
	last_name	character varying(45)	Actor last name
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links from:

Table	Join
film_actor	film_actor.actor_id = actor.actor_id



Dimension Table: Category

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	category_id	Serial	Unique category ID
	name	character varying(25)	Name of type of category
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links from:

Table	Join
film_category	film_category.category_id = category.category_id

Dimension Table: Film

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	film_id	serial	Unique film ID
	title	character varying(255)	Film title name
	description	text	Film full description
	release_year	year	Year of film release
	language_id	smallint	Unique language ID
	rental_duration	smallint	Film length time ID
	rental_rate	numeric(4,2)	Rental usage rate
	length	smallint	Film length in minutes
	replacement_cost	numeric(5,2)	Price of film replacement
	rating	mpaa_rating	Film mpaa rating
	last_update	timestamp(6) w/o time zone	Time and Date of last update
	special_features	Text	Special features that accompany the film
	fulltext	tsvector	Text search vectors for full film text searches



Links to:

Table	Join
language	film.language_id = language.language_id

Links 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

Dimension Table: Address

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	address_id	serial	Unique address ID
	address	character varying(50)	Street address
	address2	character varying(50)	Second line of street address for unit or apartment number, etc
	district	character varying(20)	State, province, or territory of address
	city_id	smallint(16)	Unique city ID
	postal_code	character varying(10)	Full postal code
	phone	character varying(20)	Phone number
	last_update	timestamp(6) w/o time zone	Time and Date of last update


Links to:

Table	Join
city	address.city_id = city.city_id

Links from:

Table	Join
customer	customer.address_id = address.address_id
staff	staff.address_id = address.address_id
store	store.address_id = address.address_id



Dimension Table: Language

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	language_id	serial	Unique language ID
	name	character(20)	Language name
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links from:

Table	Join
film	film.language_id = language.language_id

Dimension Table: City

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	city_id	serial	Unique city ID
	city	Character varying(50)	City name
	country_id	smallint	Unique country ID
	last_update	timestamp(6) w/o time zone	Time and Date of last update


Links to:

Table	Join
country	city.country_id = country.country_id

Links from:

Table	Join
country	country.country_id = city.country_id
address	address.city_id = city.city_id

Dimension Table: Country

	<i>Columns</i>	<i>Data type</i>	<i>Description</i>
	country_id	serial	Unique country ID
	country	Character varying(50)	Name of Country
	last_update	timestamp(6) w/o time zone	Time and Date of last update

Links from:

Table	Join
city	city.country_id = country.country_id