# Data Dictionary RockBuster Stealth LLC.



Achievement 3.10 | Presenting SQL Results

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#### Data Set Glossary.

#### Data Set

This data set that contains information about Rockbuster's film inventory, customers, and payments, staff, addresses among other things. A relationship exists between two tables if a column name is present in both tables.

### **Primary Key**

The primary key is a column or set of columns that acts as a unique identifier for each record in a table. There can only be one primary key within a table, and it has to meet the following criteria. Primary Keys will be highlighted in black and defined as (PK) at the end of the *description* column.

#### Foreign Key

A foreign key is a column, or set of columns, that refers to the primary key in another table. Foreign keys are used to establish relationships between tables and are helpful in navigating from one table to another. Foreign Keys will be highlighted in blue and defined as (FK) at the end of the *description* column.

#### **Unique Key**

Is a constraint in a database that ensures all values in a specific column, or combination of columns, are distinct across all rows in a table. It is used to prevent duplicates and to help identify records uniquely. Can be more than one.

#### Relational Database Schema: Entity Relationship Diagram (ERD)

An entity relationship diagram (ERD) illustrates the links between the tables in a relational database.

#### **Fact Tables**

A fact table stores quantitative data related to business events. It contains the core measurements (facts) of a process and foreign keys that link to the relevant dimension tables. They represent events or transactions and hold numeric values.

#### **Dimension Tables**

Contains descriptive attributes related to the dimensions of a business process. These provide context for facts and allow users to slice and filter data in meaningful ways. Contains categorical or textual data.

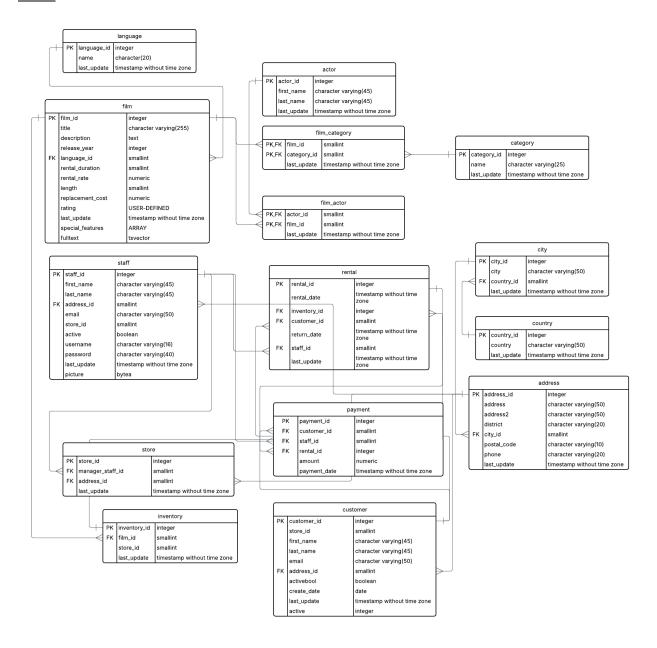
#### Links to

The table contains a Foreign Key that points to another table's Primary Key.

#### Links from

Other tables have Foreign Keys that point to this table's Primary Key.

## ERD.



# Fact Tables.

		Fact Tables	
Name	Columns	Data type	Description / Key
	payment_id	INTEGER	number Id of each payment (PK)
	customer_id	SMALLINT	number id of each customer (FK)
payment	staff_id	SMALLINT	1 or 2 values (FK)
payment	rental_id	INTEGER	number id of rental (FK)
	amount	NUMERIC	value
	payment_date	TIMESTAMP W/O TIME ZONE	date of payment
	rentail_id	INTEGER	number id of rental (PK)
	rental_date	TIMESTAMP W/O TIME ZONE	rental date
	inventory_id	INTEGER	inventory number id (FK)
rental	customer_id	SMALLINT	customer number id (FK)
	return_date	TIMESTAMP W/O TIME ZONE	return date
	staff_id	SMALLINT	1 or 2 values (FK)
	last_update	TIMESTAMP W/O TIME ZONE	last update date

# <u>Dimension Tables.</u>

		Dimension Tables	
Name	Columns	Data type	Description / Key
	film_id	INTEGER	id number of film (PK)
	title	CHARACTER VARYING (255)	filmtitle
	description	TEXT	short description of film
	release_year	INTEGER	year
	language_id	SMALLINT	number id of language (FK)
	rental_duration	SMALLINT	value of rental duration in days
film	rental_date	NUMERIC	rental date
	length	SMALLINT	length of film
	replacement_cost	NUMERIC	price of replacement
	rating	USER-DEFINED	rating
	last_update	TIMESTAMP W/O TIME ZONE	time of last update
	special_features	ARRAY	extra features
	fulltext	TSVECTOR	key words
	staff_id	INTEGER	Staffid number 1-2 (PK)
	first_name	CHARACTER VARYING (45)	first name
	last_name	CHARACTER VARYING (45)	second name
	address_id	SMALLINT	address number id (FK)
	email	CHARACTER VARYING (50)	email
staff	store_id	SMALLINT	number id of each store
	active	BOOLEAN	true or false
	username	CHARACTER VARYING(16)	user name
	password	CHARACTER VARYING(40)	staff member password
	last_update	TIMESTAMP W/O TIME ZONE	last update date and time
	picture	BYTEA	pictures data
	adress_id	INTEGER	unique number id of address (PK)
	address	CHARACTER VARYING (50)	address
	address2	CHARACTER VARYING (50)	NULL/ empty
address	district	CHARACTER VARYING(20)	district
dudicss	city_id	SMALLINT	city id number (FK)
	postal_code	CHARACTER VARYING (10)	postal code number
	phone	CHARACTER VARYING(20)	phone number
	last_update	TIMESTAMP WITHOUT TIME ZONE	last update time and date
	country_id	INTEGER	id number of each country (PK)
country	country	CHARACTER VARYING(50)	country name
	last_update	TIMESTAMP WITHOUT TIME ZONE	time and date of last update
	city_id	INTEGER	city id number (PK)
city	city	CHARACTER VARYING(50)	city name
City	country_id	SMALLINT	country id number (FK)
	last_update	TIMESTAMP W/O ZONE	time and date of last update

# <u>Dimension Tables.</u>

		Dimension Tables	
Name	Columns	Data type	Description / Key
	category_id	INTEGER	category id number (PK)
category	name	CHARACTER VARYING(25)	category name
	last_update	TIMESTAMP WITHOUT TIME ZONE	time and date of last update
	actor_id	INTEGER	actor assinged id number (PK)
actor	first_name	CHARACTER VARYING(45)	actors first name
actor	last_name	CHARACTER VARYING(45)	actor second name
	last_update	TIMESTAMP WITHOUT TIME ZONE	time and date of last update
	film_id	SMALLINT	film number id (PK) (FK)
film_category	category_id	SMALLINT	category number id (PK) (FK)
	last_update	TIMESTAP WITHOUT TIME ZONE	time and date of last update
	actor_id	SMALLINT	actor number id (PK) (FK)
film_actor	film_id	SMALLINT	film number id (PK) (FK)
	last_update	TIMESTAMP WITHOUT TIME ZONE	time and date of last update
	store_id	INTEGER	number id 1 or 2 (PK)
store	manager_staff_id	SMALLINT	number id 1or 2 (FK)
Stole	address_id	SMALLINT	number id 1 or 2 (FK)
	last_update	TIMESTAMP WITHOUT TIME ZONE	time and date of last update
	customer_id	INTEGER	customer number id (PK)
	store_id	SMALLINT	store number id 1 or 2
	first_name	CHARACTER VARYING(45)	customer first name
	last_name	CHARACTER VARYING(45)	customer last name
customer	email	CHARACTER VARYING(40)	email
customer	address_id	SMALLINT	address id number (FK)
	activebool	BOOLEAN	true or false
	create_date	DATE	date of creation
	last_update	TIME STAMP WITHOUT TIME ZONE	time and date of last update
	active	INTEGER	active number 1 or 0
	inventory_id	INTEGER	inventory number id (PK)
inventory	film_id	SMALLINT	film number id (FK)
inventory	store_id	SMALLINT	store number id
	last_update	TIMESTAMP W/O TIME ZONE	time and date of last update
	language_id	INTEGER	id number of language (PK)
language	name	CHARACTER VARYING(20)	name of language
ļ	last_update	TIME STAMP WITHOUT TIME ZONE	time and date of last update

## Table links.

• Table: film

Unique Key: film\_id

Links From:

- <u>inventory</u> via film\_id
- film actor via film\_id
- film category via film\_id

Links To:

- <u>language</u> via language\_id

· Table: actor

Unique Key: actor\_id

Links From:

- film actor via actor\_id

Links To: 0

• Table: film\_actor

Unique Key: actor\_id + film\_id

Links From: 0

Links To:

- -<u>film</u> via film\_id
- actor via actor\_id

• Table: inventory

<u>Unique Key</u>: inventory\_id

Links From:

- <u>rental</u> via inventory\_id

- <u>film</u> via film\_id
- store via store\_id

· Table: rental

<u>Unique Key</u>: rental\_id

Links From:

- payment via rental\_id

Links To:

- inventory via inventory\_id
- customer via customer\_id
- staff\_via staff\_id
- · Table: customer

Unique Key: customer\_id

Links From:

- rental via customer\_id
- payment via customer\_id

Links To:

- address\_id
- store via store\_id
- Table: payment

Unique Key: payment\_id

Links From: 0

Links To:

- customer via customer\_id
- staff\_via staff\_id
- rental via rental\_id
- · Table: staff

Unique Key: staff\_id

Links From:

- rental via staff\_id
- payment via staff\_id
- store via staff\_id

- address\_id
- store via store\_id

· Table: store

<u>Unique Key</u>: store\_id

Links From:

- customer via store\_id
- inventory via store\_id

Links To:

- $\underline{\text{staff}}$  via  $\underline{\text{staff\_id}}$
- address\_id
- · Table: address

Unique Key: address\_id

Links From:

- staff via address\_id
- store via address\_id
- customer via address\_id

Links To:

- city via city\_id

· Table: city

Unique Key: city\_id

Links From:

- address via city\_id

Links To:

- country via country\_id

· Table: country

Unique Key: country\_id

Links From:

- city via country\_id

## • Table: category

Unique Key: category\_id

Links From:

- <u>film category</u> via category\_id

Links To: 0

## • Table: film\_category

Unique Key: film\_id, category\_id

Links From:0

Links To: film via film\_id,

category via category\_id

## • Table: language

<u>Unique Key</u>: language\_id

Links From: film via language\_id