

# DATABASES & SQL FOR ANALYSTS

## 3.10: PRESENTING SQL RESULTS

### ROCKBUSTER STEALTH LLC

#### 1. Data Dictionary

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## 2. Fact tables:

2.1 Payment		
Columns	Data Type	Description
payment_id	SERIAL	Unique identifier associated with the payment
customer_id	SMALLINT	Unique identifier associated with the customer
staff_id	SMALLINT	Unique identifier associated with the staff
rental_id	INTEGER	Unique identifier associated with the rental transaction
amount	NUMERIC(5,2)	Rental cost
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rental transaction.

2.2 Store		
Columns	Data Type	Description
store_id	SERIAL	Unique identifier associated with the store
manager_staff_id	SMALLINT	Unique identifier associated with the store manager
address_id	SMALLINT	Unique identifier associated with the store address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated

2.3 film_actor		
Columns	Data Type	Description
actor_id	SMALLINT	Unique identifier associated with the actor
film_id	SMALLINT	Unique identifier associated with the film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was updated

## 3. Dimension Tables:

3.1 Rental		
Columns	Data Type	Description
rental_id	SERIAL	Unique identifier associated with the rental
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time data was rented
inventory_id	INTEGER	Unique identifier associated with the inventory
customer_id	SMALLINT	Unique identifier associated with the customer
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	The rental date and time was returned
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time rental was updated

3.2 Inventory		
Columns	Data Type	Description
inventory_id	SERIAL	Unique identifier associated with the inventory
film_id	SMALLINT	Unique identifier associated with the film
store_id	SMALLINT	Unique identifier associated to the store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time inventory was updated

3.3 film_category		
Columns	Data Type	Description
film_id	SMALLINT	Unique identifier associated with the film

category_id	SMALLINT	Unique identifier associated to the film category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time category was updated

### 3.4 Customer

Columns	Data Type	Description
customer_id	SERIAL	Unique identifier associated with the customer
store_id	SMALLINT	Unique identifier associated with the store
first_name	CHARACTER VARYING(45)	customer's first name
last_name	CHARACTER VARYING(45)	customer's last name
email	CHARACTER VARYING(50)	customer's email
address_id	SMALLINT	customer's address
activebool	BOOLEAN	Identifies if the customer still active (Y / N)
create_date	DATE	creation date
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time customery was updated
active	INTEGER	Identifies if the customer still active (integer)

### 3.5 Staff

Columns	Data Type	Description
Staff_id	SERIAL	Unique identifier associated with the staff
first_name	CHARACTER VARYING(45)	Staff's first name
last_name	CHARACTER VARYING(45)	Staff's last name
address_id	SMALLINT	Unique identifier associated to the staff id
email	CHARACTER VARYING(50)	Staff's email address
store_id	SMALLINT	Unique identifier associated to the store
active	BOOLEAN	Identifies if the staff still active (Y / N)
username	CHARACTER VARYING(16)	Staff's username
password	CHARACTER VARYING(40)	Staff's password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time staff record was updated
picture	BYTEA	Staff's picture

### 3.6 Actor

Columns	Data Type	Description
actor_id	SERIAL	Unique identifier associated to the actor
first_name	CHARACTER VARYING(45)	Actor's first name
last_name	CHARACTER VARYING(45)	Actor's last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time actor record was updated

### 3.7 film

Columns	Data Type	Description
film_id	SERIAL	Unique identifier associated with the film
title	CHARACTER VARYING(255)	title of the film
description	TEXT	description of the film
release_year	year	Release year of the film
language_id	SMALLINT	language of the film
rental_duration	SMALLINT	number of days the film was rented
rental_rate	NUMERIC(4,2)	Daily rental cost

length	SMALLINT	Films duration
replacement_cost	NUMERIC(5,2)	Films cost in case is lost
rating	mpaa_rating	rating of the film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time film was updated
special_features	TEXT[]	additional features of the film
fulltext	TSVECTOR	text associated with the film

### 3.8 Category

Columns	Data Type	Description
category_id	SERIAL	Unique identifier associated to the category of the film
name	CHARACTER VARYING(25)	category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time category was updated

### 3.9 address

Columns	Data Type	Description
address_id	SERIAL	Unique identifier associated with the customer or staff address
address	CHARACTER VARYING(50)	Customer or staff adress
address2	CHARACTER VARYING(50)	Second customer or staff address
district	CHARACTER VARYING(20)	Customer or staff district
city_id	SMALLINT	Customer or staff district
postal_code	CHARACTER VARYING(10)	Customer or staff city
phone	CHARACTER VARYING(20)	Customer or staff phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time address was updated

### 3.10 Language

Columns	Data Type	Description
language_id	SERIAL	Unique identifier associated with the language
name	CHARACTER VARYING(20)	Laguage name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time language was updated

### 3.11 City

Columns	Data Type	Description
city_id	SERIAL	Unique identifier associated with the city
city	CHARACTER VARYING(50)	Name of the city from the customer or staff
country_id	SMALLINT	Name of the country from the customer or staff
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time city was updated

### 3.12 Country

Columns	Data Type	Description
country_id	SERIAL	Unique identifier associated with the country
country	CHARACTER VARYING(50)	Name of the country from the customer or staff
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time country was updated

4. Entity Relationship Diagram (ERD)



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5. Tableau URL: [DAI 3.10 | Tableau Public](#)