# Databases & SQL for Analysts

**3.10: Presenting SQL Results**

**ROCKBUSTER STEALTH LLC**

## Data Dictionary

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## 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 |

## 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 |

## Entity Relationship Diagram (ERD)

A diagram of a computer

AI-generated content may be incorrect.

## Tableau URL: [DAI 3.10 | Tableau Public](https://public.tableau.com/app/profile/alfonso.dominguez7376/viz/DAI3_10/RBFinal?publish=yes)