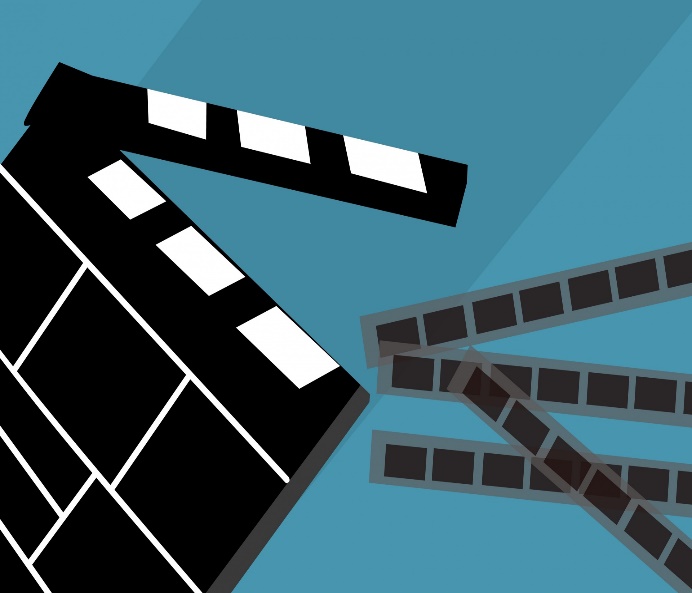
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Presenting SQL Results – Task 3.10

ROCKBUSTER DATA DICTIONARY



1.

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2.

A computer screen shot of a computer flow chart

Description automatically generated with medium confidence

Figure 1. Rockbuster Entity Relationship Diagram (ERD)

**Legend Key:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Primary Key** |  | **Foreign Key** |

3.

**Explanation:**

|  |  |  |  |
| --- | --- | --- | --- |
| **FACT TABLE** | The table in the centre of the scheme | **DIMENSTION TABLES** | Tables surrounding the fact table |

**FACT TABLE:**

**RENTAL**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **COLUMN** | **DATA TYPE** | **DESCRIPTION** |
|  | Rental\_id | Serial | Unique no. assign to each movie rental |
|  | Rental\_date | timestamp (6) without time zone | The date and time when the movies were rented out. |
|  | Inventory\_id | Integer | Unique no. assign to each movie for inventory purposes |
|  | Customer\_id | Smallint | Unique no. assign to each customer |
|  | Return\_date | timestamp (6) without time zone | The date and time when the movie was returned |
|  | Staff\_id | Smallint | Unique no assigned to each staff member |
|  | Last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| 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 |

DIMENSION TABLES:

payment

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | Payment\_id | Serial | Unique no assigned to each payment |
|  | Customer\_id | Smallint | Unique no. assign to each customer |
|  | Staff\_id | Smallint | Unique no assigned to each staff member |
|  | Rental\_id | Integer | Unique no. assign to each movie rental |
|  | Amount | Numeric (5,2) | Amount paid for the movie rental |
|  | Payment\_date | Timestamp(6) without time zone | The date and time when the payment was made |

|  |  |
| --- | --- |
| Links to table: | Join: |
| Customer | payment.customer\_id = customer.customer\_id |
| Staff | staff rental\_customer\_id = customer. customer\_id |
| Rental | payment.rental\_id = renta.rental\_id |

STORE

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | Store\_id | Serial | Unique no assigned to each store |
|  | Manager\_staff\_id | Smallint | Unique no assigned to each manager |
|  | Address\_id | smallint | Unique no assigned to each store’s address |
|  | Last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links to table: | Join: |
| Address | store.address\_id = address.address\_id |
| staff | store.address\_id = staff. address\_id |

**FILM\_ACTOR**

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | Actor\_id | Smallint | Unique no assigned to each actor |
|  | Film\_id | Smallint | Unique no assigned to each film |
|  | Last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links to table: | Join: |
| Actor | film\_actor.actor\_id = actor.actor\_id |
| film | \_id film film\_actor.film\_id = film.film\_id |

**INVENTORY**

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | Inventory\_id |  | Unique no assigned to each movie |
|  | Film\_id | smallint | Unique no assigned to each film |
|  | Store\_id | Serial | Unique no assigned to each store |
|  | Last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links to table: | Join: |
| Film | inventory.film \_id = film.film\_id |
| rental | inventory.film \_id = film.film\_id |

**FILM CATEGORY**

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | film\_id | smallint | Unique no assigned to each film |
|  | category\_id | smallint | Unique no assigned to each movie category |
|  | last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links to table: | Join: |
| category | film\_category.category\_id = category.category\_id |
| film | film\_category.film\_id = film.film\_id |

**CUSTOMER**

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | customer\_id | Smallint | Unique no. assign to each customer |
|  | store\_id | Serial | Unique no assigned to each store |
|  | first\_name | character varying (45) | Customer’s first name |
|  | last\_name | character varying (45) | Customer’s last name |
|  | e-mail | character varying (50) | Customer’s e-mail address |
|  | address\_id | Smallint | Unique no assigned to each customer’s address |
|  | activebool | Boolean | Whether or not the customer is active |
|  | create\_date | Date | The date the customer’s account was created |
|  | last\_update | timestamp (6) without time zone | The date and time when the last update occurred |
|  | active | integer | Shows the customer’s status |

|  |  |
| --- | --- |
| Links to table: | Join: |
| address | customer.address\_id = address.address\_id |
| Links from table: | Join: |
| rental | rental.customer\_id = customer.customer\_id |
| payment | Payment.customer\_id = customer.customer\_id |

**STAFF**

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | staff\_id | Smallint | Unique no assigned to each staff member |
|  | first\_name | character varying (45) | Employee’s first name |
|  | last\_name | character varying (45) | Employee’s last name |
|  | address\_id | Smallint | Unique no assigned to each employee’s address |
|  | e-mail | character varying (50) | Employee’s e-mail address |
|  | store\_id | Serial | Unique no assigned to each store |
|  | Activebool | Boolean | Whether or not the employee is active |
|  | Username | character varying (16) | Employee’s username |
|  | Password | character varying (40) | Employee’s password |
|  | last\_update | timestamp (6) without time zone | The date and time when the last update occurred |
|  | picture | BYTEA | Employee’s photo |

|  |  |
| --- | --- |
| Links to table: | Join: |
| Address | staff.address\_id = address.address\_id |
| Links from table: | Join: |
| Rental | rental.staff\_id = staff.staff\_id |
| Payment | payment.staff\_id = staff.staff\_id |
| store | store.address\_id = staff.address\_id |

**ACTOR**

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | actor\_id | smallint | Unique no assigned to each actor |
|  | first\_name | character varying (45) | Actor first name |
|  | last\_name | character varying (45) | Actor last name |
|  | last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links to table: | Join |
| film\_actor | Film\_actor.actor\_id = actor.actor\_id |

**FILM**

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | film\_id | Smallint | Unique no assigned to each movie |
|  | Title | character varying (255) | Movie title |
|  | Description | TEXT | Movie description |
|  | release-year | Year | The year the movie was released |
|  | language\_id | Smallint | Unique no assigned to each film based on the language |
|  | rental\_duration | Smallint | For how long the movie was rented for |
|  | rental\_rate | numeric (4,2) | Rental price |
|  | Length | Smallint | The movie length |
|  | replacement\_cost | numeric (5,2) | Cost to replace the movie |
|  | Rating | mpaa\_rating | Movie rating |
|  | last\_update | timestamp (6) without time zone | The date and time when the last update occurred |
|  | special\_features | TEXT [] | The special features included with each movie |
|  | fulltext | TSVECTOR | Keywords linked to each movie that a customer may use in searching for the movie |

|  |  |
| --- | --- |
| Links to table: | Join |
| Language | film.language\_id = language.language\_id |
| Links from table | Join |
| film\_actor | film\_actor.film\_id = film.film\_id |
| film\_category | film\_category.film\_id\_id = film.film\_id |
| inventory | inventory.film\_id = film.film\_id |

CATEGORY

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | category\_id | smallint | Unique no assigned to each movie category |
|  | name | character varying (25) | Category name |
|  | last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links to table: | Join: |
| film\_category | film\_category.category\_id = category.category\_id |

ADDRESS

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | address\_id | Smallint | Unique no assigned to each employee’s address, store and custormer |
|  | Address | character varying (50 | Street name |
|  | address2 | character varying (50) | Apt no, etc |
|  | District | character varying (20) | State, province, or territory |
|  | city\_id | Smallint | Unique no assigned to each city |
|  | postal\_code | character varying (10) | Each city’s postal code |
|  | Phone | character varying (20) | Phone number related to the address |
|  | Last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links to table: | Join: |
| city | address.city\_id = city.city\_id |

|  |  |
| --- | --- |
| Links from table | Join: |
| store | store.address\_id = address.address\_id |
| customer | customer.address\_id = address.address\_id |
| staff | staff.address\_id = address.address\_id |

LANGUAGE

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | language\_id | Smallint | Unique no assigned to each film based on the language |
|  | name | character (20) | Language name |
|  | last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links from table | Join |
| film | film.language\_id = language.language\_id |

CITY

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | city\_id | Serial | Unique no assigned to each city |
|  | City | character varying (50) | Name of the city |
|  | country\_id | Smallint | Unique no assigned to each country |
|  | Last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Links to table | Join |
| Country | city.country\_id = country.country\_id |

|  |  |
| --- | --- |
| Links from table | Join |
| address | address.city\_id = city.city\_id |

COUNTRY

|  |  |  |  |
| --- | --- | --- | --- |
|  | COLUMN | DATA TYPE | DESCRIPTION |
|  | country\_id | serial | Unique no assigned to each country |
|  | Country | character varying (50) | Name of the county |
|  | last\_update | timestamp (6) without time zone | The date and time when the last update occurred |

|  |  |
| --- | --- |
| Link from table | Join |
| City | city.country\_id = country.country\_id |