Task 3.2

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A diagram of a computer program

Description automatically generated with medium confidence

Rockbuster ERD has a snowflake Schema due to having sub dimension tables.

FACT TABLES

|  |  |  |
| --- | --- | --- |
| COLUMNS | DATA TYPE | DESCRIPTION |
| PAYMENT | | |
| payment\_id | Serial | Unique payment identifier- primary key |
| customer\_id | Small int | Unique customer identifier |
| staff\_id | Small int | Unique staff identifier |
| rental\_id | integer | Unique rental identifer |
| amount | Numerics (5,2) | Amount of payment |
| payment\_date | Timestamp without time zone | Date and time record of payment |

|  |  |  |
| --- | --- | --- |
| RENTAL | | |
| rental\_id | serial | Unique rental identifier |
| rental\_date | Timestamps without time zone | Date and time of rental |
| inventory\_id | integer | Unique inventory identifier |
| customer\_id | Small integer | Unique customer identifier |
| return \_date | Timestamp without time zone | Date and time of rental |
| staff\_id | Small integer | Unique staff identifer |
| last\_update | Timestamp without time zone | Date and time of latest update |

DIMENSION TABLES

|  |  |  |
| --- | --- | --- |
| Film\_actor | | |
| actor\_id | Small integer | Unique actor identifier |
| film\_id | Small integer | Unique film identifier |
| last\_update | Timestamp without time zone | Date and time of latest update |
| Inventory | | |
| inventory\_id | Serial | Unique inventory identifier |
| film\_id | Small integer | Unique film identifier |
| store\_id | Small integer | Unique store identifier |
| last\_update | Timestamp without time zone | Date and time of latest update |
| Film\_category | | |
| film\_id | Small integer | Unique film identifier |
| category\_id | Small integer | Unique category identifier |
| last\_update | Timestamp without timezone | Date and time of latest update |
| Customer | | |
| customer\_id | serial | Unique customer identifier |
| store\_id | Small integer | Unique store identifier |
| first\_name | Character varying (45) | Customer first name |
| last\_name | Character varying (45) | Customer last name |
| email | Character varying (50) | Customer email |
| address\_id | Small integer | Unique address identifier |
| activebool | Boolean | Customer’s active status |
| create\_date | Date | Date of customer profile creation |
| last\_update | Timestamp without time zone integer | Date and time of latest update |
| active | integer | Active status represented by 0 or 1 |
| Store | | |
| store\_id | serial | Store unique identifier |
| manager\_staff\_id | Small integer | Manager staff unique identifier |
| address\_id | Small integer | Unique address identifier |
| last\_update | Timestamp without time zone | Date and time of latest update |
| Staff | | |
| staff\_id | Serial | Unique staff member identifier |
| first\_name | Character varying (45) | Staff member’s first name |
| last\_name | Character varying (45) | Staff member’s last name |
| address\_id | Small integer | Unique address identifier |
| email | Character varying (50) | Staff member’s email address |
| store\_id | Small integer | Unique store identifier |
| active | Boolean | Staff members’ active status |
| username | Character varying (16) | Staff members’ username |
| password | Character varying (40) | Staff members’ password |
| last\_update | Timestamp without time zone | Date and time of latest update |
| picture | BYTEA | Staff member’s picture |
| FILM | | |
| film\_id | serial | Unique film identifier |
| title | Character varying (255) | Film title |
| description | text | Description of film |
| release \_year | year | Film release year |
| language\_id | Small integer | Language of film |
| rental\_duration | Small integer | Rate or rental |
| rental\_rate | Numeric (4,2) | Length of film |
| length | Small integer | Replacement of cost of film |
| replacement\_cost | Numeric (5,2) | Replacement cost of film |
| rating | mppa\_rating | Film rating |
| last\_update | Timestamp without time zone | Date and time of latest update |
| special\_feactures | text | Film’s special features (trailers) |
| fulltext | tsvector | Film index; used for searching |
| Category | | |
| category\_id | serial | Category unique identifier |
| name | Character varying (25) | Category name |
| last\_update | Timestamp without time zone | Date and time of latest update |
| Address | | |
| address\_id | serial | Address unique identifier |
| address | Character varying (50) | First line of address |
| address2 | Character varying (50) | Second line of address |
| district | Character varying (20) | Address district |
| city\_id | Small integer | City unique identifier |
| postal\_code | Character varying (10) | Address’ postal code |
| phone | Character varying (20) | Address’ phone number |
| last\_update | Timestamp without time zone | Date and time of latest update |
| Language | | |
| language\_id | serial | Language uniqure identifier |
| name | Character (20) | Language name |
| last\_update | Timestamp without time zone | Date and time of latest update |
| City | | |
| city\_id | serial | City’s unique identifier |
| city | Character varying (50) | City name |
| country\_id | Small integer | Country’s unique identifier |
| last\_update | Timestamp without time | Date and time of latest update |
| Country | | |
| country\_id | serial | Country’s unique identifier |
| country | Character varying (50) | Name of country |
| last\_update | Timestamp without time zone | Date and time of latest update |

Which actors brought Rockbuster the most revenue?

Actor

Film

Film\_actor

inventory

Rental

Payment

What language are the majority of movies in the collection?

Language

Film

inventory