- The ERD has a snowflake schema.

## Fact Tables

**Payment**

| Columns | Data Type | Description |
| --- | --- | --- |
| Payment_id | integer | Unique payment identifier |
| Customer_id | smallint | Unique customer identifier |
| Staff_id | smallint | Unique staff identifier |
| Rental_id | integer | Unique rental identifier |
| amount | numeric | Cost in numbers |
| Payment_date | Timestamp without time zone | Date of payment |

**Rental**

| Columns | Data Type | Description |
| --- | --- | --- |
| Rental_id | Integer | Unique rental identifier |
| Rental_date | Timestamp without time zone | Date of rental |
| Inventory_id | Integer | Unique inventory identifier |
| Customer_id | Smallint | Unique customer identifier |
| Return_date | Timestamp without time zone | Date of return |
| Staff_id | Smallint | Unique staff identifier |

| Last_update | Timestamp without time zone | Time of last update |
|---|---|---|

## Dimension Tables

### Actor

| Columns | Data Type | Description |
|---|---|---|
| Actor_id | Integer | Unique actor identifier |
| First_name | Character varying | First name of actor |
| Last_name | Character varying | Last name of actor |
| Last_update | Timestamp without time zone | Time of last update |

### Address

| Columns | Data Type | Description |
|---|---|---|
| Address-id | Integer | Unique address identifier |
| Address | Character varying | First address line |
| Address2 | Character varying | Second address line |
| District | Character varying | District of address |
| City_id | Smallint | Unique city identifier |
| Postal_code | Character varying | Postal code of address |
| Phone | Character varying | Phone number for address |
| Last_update | Timestamp without time zone | Time of last update |

### Category

| Columns | Data Type | Description |
|---|---|---|
| Category_id | Integer | Unique category identifier |
| Name | Character varying | Name of category |
| Last_update | Timestamp without time zone | Time of last update |

### City

| Columns | Data Type | Description |
|---|---|---|
| City_id | Integer | Unique city identifier |

| City | Character varying | Name of city |
|---|---|---|
| Country_id | Smallint | Unique country identifier |
| Last_update | Timestamp without time zone | Time of last update |

## Country

| Columns | Data Type | Description |
|---|---|---|
| Country_id | Integer | Unique country identifier |
| Country | Character varying | Name of country |
| Last_update | Timestamp without time zone | Time of last update |

## Customer

| Columns | Data Type | Description |
|---|---|---|
| Customer_id | integer | Unique customer identifier |
| Store_id | smallint | Unique store identifier |
| First_name | Character varying | Customer first name |
| Last_name | Character varying | Customer last name |
| Email | Character varying | Customer email address |
| Address_id | smallint | Customer address |
| Activebool | boolean | Customer activity status |
| Create_date | date | Date of profile creation |
| Last_update | Timestamp without time zone | Time of last update |
| active | integer | Active integer |

## Film

| Columns | Data Type | Description |
|---|---|---|
| Film_id | Integer | Unique film identifier |
| Title | Character varying | Title of film |
| Description | text | Description of film |
| Release_year | Integer | Year of film release |
| Language_id | smallint | Unique language identifier |
| Rental duration | smallint | Duration of film rental |
| Rental_rate | Numeric | Rate of rental |
| Length | smallint | Length of film |
| Replacement_cost | Numeric | Cost of film replacement |
| Rating | USER-DEFINED | Film rating |

| Last_update | Timestamp without time zone | Time of last update |
|---|---|---|
| Special_features | ARRAY | Special features of film |
| Fulltext | Tsvector | Film text index |

**Film-actor**

| Columns | Data Type | Description |
|---|---|---|
| Actor_id | Smallint | Unique actor identification |
| Film_id | Smallint | Unique film identifier |
| Last_update | Timestamp without time zone | Time of last update |

**Film_category**

| Columns | Data Type | Description |
|---|---|---|
| Film_id | Smallint | Unique film identifier |
| Category_id | Smallint | Unique category identifier |
| Last_update | Timestamp without time zone | Time of last update |

**Inventory**

| Columns | Data Type | Description |
|---|---|---|
| Inventory_id | Integer | Unique inventory identifier |
| Film_id | Smallint | Unique film identifier |
| Store_id | Smallint | Unique store identifier |
| Last_update | Timestamp without time zone | Time of last update |

**Language**

| Columns | Data Type | Description |
|---|---|---|
| Language_id | Integer | Unique language identifier |
| Name | Character | Language name |

| | | |
|---|---|---|
| Last_update | Timestamp without time zone | Time of last update |

**Staff**

| Columns | Data Type | Description |
|---|---|---|
| Staff_id | Integer | Unique staff identifier |
| First_name | Character varying | First name of staff member |
| Last_name | Character varying | Last name of staff member |
| Address_id | Smallint | Unique address identifier |
| Email | Character varying | Email address of Staff member |
| Store_id | Smallint | Unique store identifier |
| Active | Boolean | Employment status |
| Username | Character varying | Username of Staff member |
| Password | Character varying | Password of staff member |
| Last_update | Timestamp without time zone | Time of last update |
| Picture | Bytea | Picture of staff member |

**Store**

| Columns | Data Type | Description |
|---|---|---|
| Store_id | Smallint | Unique store identifier |
| Manager_staff_id | Smallint | Unique store manager identifier |
| Address_id | Smallint | Unique address identifier |
| Last_update | Timestamp without time zone | Time of last update |

- Which actors brought Rockbuster the most revenue?

  Film, Actor, Film_actor, Inventory, Rental, Payment.

- What language are the majority of movies in the collection?

  Language, film, inventory.