**Table of Contents**

1. Entity Relationship Diagram.........................................1

2. Tables

2.1 Fact tables

2.2 Rental.............................................................. 3

2.3 Payment………………………………………..3

2.3 Dimension tables 2.1

1.Film Actor....................................................3

2. Actor .............................................................3

3. Inventory ......................................................4

4.Film....................................................4

5.Language............................................................ 5

6 .Category...................................................5

7.Film\_category .............................................5

8. Rental.....................................................5

9.Customer..................................................... 5

10.Staff...................................................... 6

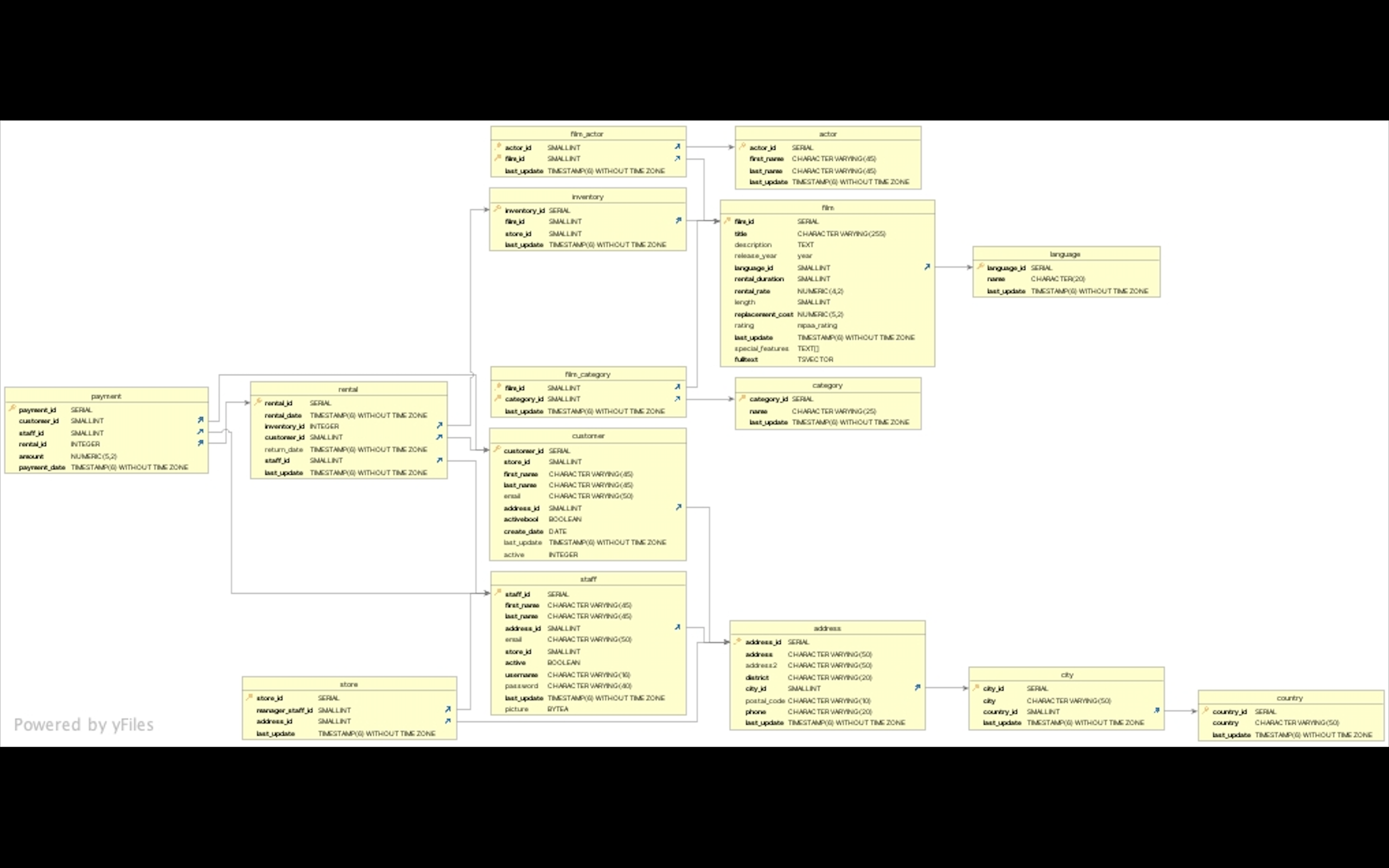
11.Store.............................................................6

12.Address............................................................ 6

13.City………………………………………………………7

14.Country……………………………………………..7

**Step 1. Extract the ERD**



**2.Fact Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Table Name** | **Colum** | **Data Type** | **Description** |
| Rental Table | rental\_ id | serial | ID of rental |
|  | Rental\_ date | Timestamp w/o Time Zone | Date of rental |
|  | Inventory \_id | integer | ID of inventory |
|  | Customer \_id | smallint | ID of customer |
|  | Return\_ date | Timestamp w/o Time Zone | Date movie was returned |
|  | Staff \_id | Smallint | ID of staff |
|  | Last \_update | Timestamp w/o Time Zone | Last update of table |
| Payment | payment\_id | serial | ID of payment |
|  | customer\_id | smallint | ID of customer |
|  | staff\_id | smallint | ID of staff |
|  | rental\_id | integer | ID of rental |
|  | amount | numeric(5,2) | Cost of rental |
|  | payment\_date | Timestamp w/o Time Zone | Date payment was made |

**Dimensions Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Table Name** | **Colum** | **Data Type** | **Description** |
| film\_actor | actor\_id | Smallint | ID for actor |
|  | film\_id | Smallint | ID for film |
|  | last\_update | Timestamp w/o Time Zone | Last update of table |
| actor | actor\_id | Serial | ID for actor |
|  | first\_name | Character varying(45) | Actor first name |
|  | last\_name | Character varying(45) | Actor last name |
|  | last\_update | Timestamp w/o Time Zone | Last update of table |
| Inventory | inventory\_id | serial | ID for inventory item |
|  | film\_id | smallint | ID for film |
|  | store\_id | smallint | ID for store |
|  | last\_update | Timestamp w/o Time Zone |  |
| Film | film\_id | serial | ID for Film |
|  | title | varchar | Title of Film |
|  | description | text | Description of Film |
|  | release\_year | year | Release year of Film |
|  | language\_id | int2 | Language of Film |
|  | rental\_duration | int2 | Rental Duration of film |
|  | rental\_rate | numeric | Rental rate of film |
|  | length | int2 | Lenghth of Film |
|  | replacement\_cost | numeric | Replacement Cost if not refunded |
|  | rating | mpaa\_rating | Rating of Film |
|  | last\_update | timestamp | Last update of table |
|  | special\_features | \_text | Feature of film |
|  | fulltext | tsvector | Film Index |
| Language | language\_id | serial | Id of language |
|  | name | bpchar | Name of Language |
|  | last\_update | timestamp | Last update of table |
| Category | category\_id | serial | ID of Category |
|  | name | varchar | Name of Category |
|  | last\_update | timestamp | Last update of table |
| Film Category | film\_id | int2 | ID for Film Category |
|  | category\_id | int2 | ID for Film Category |
|  | last\_update | timestamp | Last update of table |
| Rental | rental\_id | serial | ID for Rental |
|  | rental\_date | timestamp | Date of Rental |
|  | inventory\_id | int4 | Id of Inventory |
|  | customer\_id | int2 | Id for customer |
|  | return\_date | timestamp | Date movie was returned |
|  | staff\_id | int2 | Id of Staff |
|  | last\_update | timestamp | Last update of table |
| Payment | payment\_id | serial | Id for payment |
|  | customer\_id | int2 | Id for customer |
|  | staff\_id | int2 | Id of Staff |
|  | rental\_id | int4 | ID for Rental |
|  | amount | numeric | Cost of rental |
|  | payment\_date | timestamp | Date Payment Was made |
| customer | customer\_id | serial | Id for customer |
|  | store\_id | int2 | id for store |
|  | first\_name | varchar | Customer first name |
|  | last\_name | varchar | Customer last name |
|  | email | varchar | Email of customer |
|  | address\_id | int2 | address of customer |
|  | activebool | bool | Whether customer is active |
|  | create\_date | date | created date of customer |
|  | last\_update | timestamp | Last update of table |
|  | active | int4 | active customer |
| Staff | staff\_id | serial | Id of Staff |
|  | first\_name | varchar | first name of staff |
|  | last\_name | varchar | last name of staff |
|  | address\_id | int2 | address od staff |
|  | email | varchar | Email of Staff |
|  | store\_id | int2 | store id of staff |
|  | active | bool | Active Staff |
|  | username | varchar | username of staff |
|  | password | varchar | password of staff |
|  | last\_update | timestamp | last name of staff |
|  | picture | bytea | picture of satff |
| Store | store\_id | serial | Id of store |
|  | manager\_staff\_id | int2 | Id of store manager and staff |
|  | address\_id | int2 | addredd id of store |
|  | last\_update | timestamp | Last update of table |
| Address | address\_id | serial | ID for adress |
|  | address | varchar | adress1 |
|  | address2 | varchar | addredd 2 |
|  | district | varchar | district |
|  | city\_id | int2 | ID of CITY |
|  | postal\_code | varchar | Postcode |
|  | phone | varchar | Phone Number |
|  | last\_update | timestamp | Last update of table |
| City | city\_id | serial | ID for City |
|  | city | varchar | City |
|  | country\_id | int2 | ID for Country |
|  | last\_update | timestamp | Last update of table |
| Country | country\_id | serial | Id for Country |
|  | country | varchar | Country |
|  | last\_update | timestamp | Last update of table |