Rockbuster Stealth



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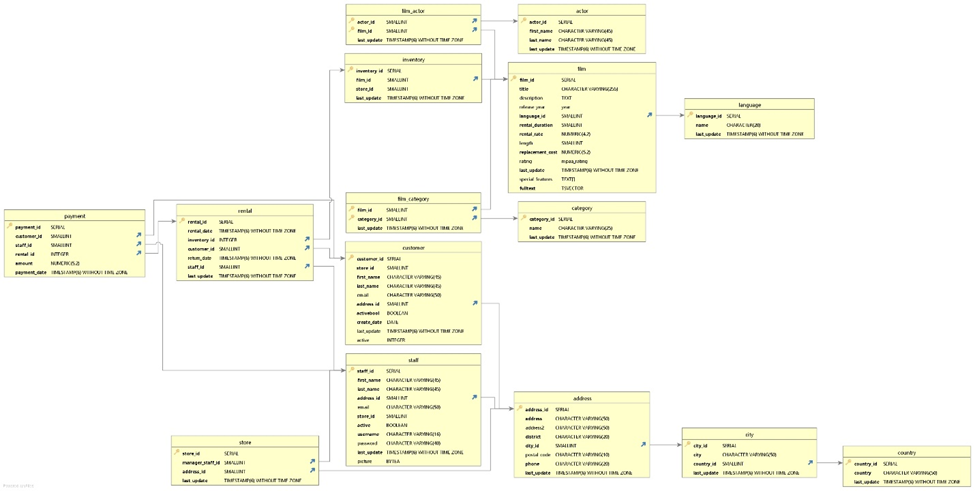
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Entity Relationship Diagram (ERD)



Facts Table:

Rental table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | rental\_id | Serial | Unique id given to each movie rental |
|  | rental\_date | Timestamp without time zone | Date and time the movie was rented |
| Foreign Key | inventory\_id | Integer | ID given for record keeping |
| Foreign Key | customer\_id | smallint | customer id to whom the movie was rented by |
|  | return\_date | Timestamp without time zone | Date and time the movie was returned |
| Foreign Key | staff\_id | Smallint | ID assigned to specific employee |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |

**Dimension Tables**

Payment table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | payment\_id | Serial | id assigned to each payment |
| Foreign Key | customer\_id | Smallint | customer id to whom the movie was rented by |
| Foreign Key | staff\_id | Smallint | Id assigned to specific employee |
| Foreign Key | rental\_id | Integer | Unique id given to each movie rental |
|  | amount | Numberic | Amount paid by customer |
|  | payment\_date | Timestamp without time zone | Time and date of payment |

Film actor table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key and Foreign Key | actor\_id | Smallint | Unique id given to each actor |
| Primary Key and Foreign Key | film\_id | Smallint | Unique id given to each movie |
|  | last\_updated | Timestamp without time zone | Time and date of most resent update |

Inventory Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | inventory-id | Serial | id given for record keeping |
| Foreign Key | film\_id | Smallint | Unique id given to each movie |
|  | store\_id | Smallint | Unique id given to each store |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |

Actor Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | actor\_id | Serial | Unique id given to each actor |
|  | first\_name | Character Varying | First name of actor |
|  | last\_name | Character Varying | Last name of actor |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |

Language Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | language\_id | Smallint | Unique id given to language(s) movies come in |
|  | name | Character Varying | Name of language |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |

Film Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | film\_id | Serial | Unique id given to each movie |
|  | title | Character Varying | Title of movie |
|  | description | Text | What movie is about |
|  | release\_year | Year | Year movie was released |
| Foreign Key | language\_id | Smallint | Unique id given to language(s) movies come in |
|  | rental\_duration | Smallint | Length of time the movie is rented for |
|  | rental\_rate | Numeric | Price to rent movie |
|  | length | Smallint | How long movie is |
|  | replacement\_cost | Numeric | Price to replace movie if lost, destroyed, of theft |
|  | rating | mpaa\_rating | Movie rating |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |
|  | special\_feature | Text | Any special features available for movie, HD |
|  | fulltext | Tsvector | Key words |

Film Category

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key and Foreign Key | film\_id | Smallint | Unique id given to each movie |
| Primary Key and Foreign Key | category-id | Smallint | Unique id given to each type of movie category |
|  | last\_updated | Timestamp without time zone | Time and date of most resent update |

Category

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | category\_id | Smallint | Unique id given to each type of movie category |
|  | name | Character Varying | Name of language |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |

Customer Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | customer\_id | Serial | customer ID to whom the movie was rented by |
|  | store\_id | Smallint | Unique id given to each store |
|  | first\_name | Character Varying | First name of customer |
|  | last\_name | Character Varying | Last name of customer |
|  | email | Character Varying | Email address of customer |
| Foreign Key | address\_id | Smallint | Postal ID of customer |
|  | activabool | Boolean | Status if customer is active or not |
|  | create\_data | Date | Creation date |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |
|  | active | Integer | Customer status |

Store Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keya | Column | Data Type | Description |
| Primary Key | store\_id | Serial | Unique ID given to each store |
| Foreign Key | manager\_staff\_id | Smallint | ID of manager |
| Foreign Key | address\_id | Smallint | Postal ID of customer |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |

Staff Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | Staff\_id | Serial | Unique ID given to each employee |
|  | first\_name | Character Varying | First name of staff |
|  | last\_name | Character Varying | Last name of staff |
| Foreign Key | address\_id | Smallint | Postal ID of staff |
|  | email | Character Varying | Email address of staff |
|  | store\_id | Smallint | Unique ID given to each store |
|  | active | Boolean | Staff status |
|  | username | Character Varying | Username of Staff |
|  | password | Character Varying | Password of Staff |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |
|  | picture | BYTEA | Picture of staff |

Address Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | address\_id | Serial | Postal address of store |
|  | address | Character Varying | Postal address of store |
|  | address2 | Character Varying | Postal address of store |
|  | district | Character Varying | Time and date of most resent update |
| Foreign Key | city\_id | Smallint | City |
|  | postal\_code | Character Varying | Postal code |
|  | phone | Character Varying | Phone number |
|  | last\_update | Timestamp without time zone | Time and date of most resent update |

City Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | city\_id | Serial | Unique ID given to Cities |
|  | city | Character Varying | City |
| Foreign Key | country\_id | Smallint | Unique ID give to each Country |
|  | last\_updated | Timestamp without time zone | Time and date of most resent update |

Country Table

|  |  |  |  |
| --- | --- | --- | --- |
| Keys | Column | Data Type | Description |
| Primary Key | country\_id | Serial | Unique ID give to each Country |
|  | country | Character Varying | Country |
|  | last\_updated | Timestamp without time zone | Time and date of most resent update |