DOCUMENTACION

IMAGEN\_MODELO\_RELACIONAL\*

1. **Listado de entidades**

* Actor
* Category
* City
* Classification
* Client
* Country
* Employee
* Language
* Movie
* Movie\_Actor
* Movie\_Category
* Movie\_Classification
* Movie\_Inventory
* Movie\_Language
* Movie\_Rental
* Rental\_Detail
* Store

1. **Listado de atributos**

* Actor

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | actor\_code | Number | x |  |  | x |
| 2 | actor\_first\_name | Varchar2(50) |  |  |  | x |
| 3 | actor\_last\_name | Varchar2(50) |  |  |  | x |

* Category

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | category\_code | Number | x |  |  | x |
| 2 | category\_name | Varchar2(30) |  |  |  | x |

* Language

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | language\_code | Number | x |  |  | x |
| 2 | language\_name | Varchar2(30) |  |  |  | x |

* Classification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | classification\_code | Number | x |  |  | x |
| 2 | classification\_name | Varchar2(30) |  |  |  | x |

* Country

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | country\_code | Number | x |  |  | x |
| 2 | country\_name | Varchar2(150) |  |  |  | x |

* City

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | city\_code | Number | x |  |  | x |
| 2 | city\_name | Varchar2(30) |  |  |  | x |
| 3 | fk\_country\_code | Number |  | x |  | X |

* Store

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | store\_code | Number | x |  |  | x |
| 2 | store\_name | Varchar2(150) |  |  |  | x |
| 3 | store\_address | Varchar2(200) |  |  |  | X |
| 4 | city\_code | Number |  | X |  | X |

* Employee

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | employee\_code | Number | x |  |  | x |
| 2 | employee\_first\_name | Varchar2(50) |  |  |  | X |
| 3 | employee\_last\_name | Varchar2(50) |  |  |  | X |
| 4 | employee\_address | Varchar2(50) |  |  |  | X |
| 5 | employee\_email | Varchar2(50) |  |  |  | X |
| 6 | employee\_state | Varchar2(50) |  |  |  | X |
| 7 | employee\_username | Varchar2(50) |  |  |  | X |
| 8 | employee\_password | Varchar2(50) |  |  |  | X |
| 9 | store\_code | Number | X |  |  | X |

* Client

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | client\_code | Number | x |  |  | x |
| 2 | client\_first\_name | Varchar2(30) |  |  |  | x |
| 3 | client\_last\_name | Varchar2(30) |  |  |  | X |
| 4 | client\_zip\_code | Number |  |  |  | X |
| 5 | client\_email | Varchar2(50) |  |  |  |  |
| 6 | register\_date | Date |  |  |  |  |
| 7 | client\_state | Varchar2(50) |  |  |  |  |
| 8 | client\_address | Varchar2(100) |  |  |  | X |
| 9 | client\_city\_code | Number |  | X |  | X |
| 10 | favorite\_store\_code | Number |  | X |  | x |

* Movie

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | movie\_code | Number | x |  |  | x |
| 2 | movie\_title | Varchar2(30) |  |  |  | x |
| 3 | movie\_description | Varchar3(250) |  |  |  |  |
| 4 | movie\_duration | Number |  |  |  | X |
| 5 | release\_year | Number |  |  |  | X |
| 6 | rent\_time | Number |  |  |  | X |
| 7 | rent\_cost | Number |  |  |  | X |
| 9 | penalty\_cost | Number |  |  |  | X |

* Movie\_rental

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | rental\_code | Number | x |  |  | x |
| 2 | rental\_date | Date |  |  |  | x |
| 3 | pay\_date | Date |  |  |  | X |
| 4 | mount\_to\_pay | Number |  |  |  | X |
| 5 | client\_code | Number | X |  |  | X |
| 6 | employee\_code | Number | X |  |  | X |

* Rental\_detail

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | rental\_code | Number |  | X |  | x |
| 2 | movie\_code | Number |  | X |  | x |
| 3 | return\_date | Date |  |  |  |  |
| 4 | rent\_cost | Number |  |  |  | x |
| 5 | rent\_duration | Number |  |  |  | x |

* Movie\_intentory

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | movie\_code | Number |  | X |  | x |
| 2 | store\_code | Number |  | X |  | x |
| 3 | quantity | Number |  |  |  | X |

* Movie\_actor

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | movie\_code | Number |  | X |  | x |
| 2 | actor\_code | Number |  | x |  | x |

* Movie\_category

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | movie\_code | Number |  | x |  | x |
| 2 | category\_code | Number |  | X |  | x |

* Movie\_classification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | movie\_code | Number |  | X |  | x |
| 2 | classification\_code | Number |  | X |  | x |

* Movie\_language

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Nombre | Tipo | Primary | Forean | Unique | Not Null |
| 1 | movie\_code | Number |  | x |  | x |
| 2 | language\_name | Number |  | X |  | x |

1. **Relaciones entre Entidades**

* Entidad ‘Country’ puede tener uno o muchos de entidad ‘City’
* Entidad ‘City’ puede tener uno o muchos de entidad ‘Client’
* Entidad ‘Client’ puede tener uno o muchos de entidad ‘Movie\_rental’
* Entidad ‘City’ puede tener uno o muchos de entidad ‘Store’
* Entidad ‘Store’ puede tener uno o muchos de entidad ‘Employee’
* Entidad ‘Employee’ puede tener uno o muchos de entidad ‘Movie\_rental’

1. **Restricción para utilizar**

* Entidad 1, Columna número: se creo la restricción de que numero tiene que ser mayor o igual a 1 y menor o igual a 10.
* Entidad 2. Columna género: se creo la restricción para que solo se acepte Hembra o Macho.

1. **Consideración de diseño**

Se diseño una entidad Diferente\_Persona porque una persona puede tener dos diferentes tipos de persona. Se considero separar la entidad Entrada de la entidad Carrera, para poder tener el control de las puertas que tendrá cada Participante. Se separo la entidad Caballo de la entidad Tipo\_Caballo para evitar la redundancia de datos.

Se dieño una entidad ‘Rental\_detail’ la cual es un detalle de la factura (Renta) correspondiente a la renta de las peliculas, partiendo del concepto de que una renta puede tener muchas peliculas, lo cual haría que la integridad de los datos se viera afectada al manejar todo en la misma tabla ‘Movie\_rental’.

Se diseño una entidad ‘Movie\_category’ debido a la necesidad de romper la relación de muchos a muchos existente entre las entidades ‘Category’ y la entidad ‘Movie’.

Se diseño una entidad ‘Movie\_language’ debido a la necesidad de romper la relación de muchos a muchos existente entre las entidades ‘Language’ y la entidad ‘Movie’.

Se diseño una entidad ‘Movie\_classification’ debido a la necesidad de romper la relación de muchos a muchos existente entre las entidades ‘Movie’ y la entidad ‘Classification’.

Se diseño una entidad ‘Movie\_actor’ debido a la necesidad de romper la relación de muchos a muchos existente entre las entidades ‘Actor’ y la entidad ‘Movie’.

Se diseño la entidad ‘Movie\_inventory’ debido a la necesidad de romper la relación de muchos a muchos existente entre las entidades ‘Movie’ y la entidad ‘Store’ y la entidad ‘Movie\_inventory’ contiene el codigo de la pelicula, el codigo de la tienda y la cantidad de unidades disponibles en la tienda.