

**UNIVERSIDAD TÉCNICA PARTICULAR DE LOJA**

**INGENIERIA EN CIENCIAS DE LA COMPUTACIÓN**

**PROYECTO FINAL**

**“CICLO DE VIDA DE BASES DE DATOS**

**RELACIONALES NORMALIZADA”**

**MATERIA:**

Fundamentos de Base de Datos

**ESTUDIANTE:**

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**FECHA:**

Loja, 08 de febrero 2022

**DOCENTES:**

Nelson Piedra | <http://investigacion.utpl.edu.ec/nopiedra>

**GITHUB:**

<https://github.com/Castillo3004/FDBD-Ciclo-de-vida-de-base-de-datos-relacionales-normalizada.git>

**CICLO ACADÉMICO:**

octubre 2021- febrero 2022

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# Diagrama E/R

Diagrama

Descripción generada automáticamente

# Claves primarias

|  |  |
| --- | --- |
| **Clave Primaria** | **Entidad** |
| IdDirector | director |
| IdGenre | genres |
| IdOrLanguajes | oiginal languaje |
| IdCast | cast |
| IdKeywords | keywords |
| IdMovie | movie |
| Iso3166\_1 | production countries |
| Iso639\_1 | spoken languages |
| IdProductionCompanies | production companies |
| IdCrew | crew |
| IdWorker | workers |
| IdJob | jobs |
| IdDepartment | department |

# Dependencias Funcionales

IdDirector 🡪 director

IdGenre 🡪 genres

IdOrLanguages 🡪 original language

IdCast 🡪 name

IdKeywords 🡪 keywords

Id Movie 🡪 title, original\_title, overview, revenue, runtime, homepage, tagline, release\_date, status, vote\_count, index, popularity, vote\_average

Iso3166\_1 🡪 name

Iso639\_1 🡪 name

IdProduction\_companies 🡪 name

IdCrew 🡪 credit\_id

IdWorker 🡪 name, gender

IdJob 🡪 job

IdDepartament 🡪 departament

# Formas Normales

4.1 Primera Forma Normal

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Movie | | | | | | | | | |
| index | budget | genres | id | keywords | original language | original title | overview | popularity | release date |
| revenue | runtime | tagline | title | vote\_average | vote\_acount | cast | name | director |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| crew | | | | | |
| id | IdCredit | name | gender | job | dpeartment |

|  |  |
| --- | --- |
| production\_companies | |
| Iso3166\_1 | name |

|  |  |
| --- | --- |
| spoken\_languajes | |
| Iso639\_1 | Name |

4.2 Segunda Forma Normal

|  |  |
| --- | --- |
| production\_countries | |
| **Iso639\_1** | name |

|  |  |
| --- | --- |
| production\_companies | |
| **Iso3166\_1** | name |

|  |  |
| --- | --- |
| spoken\_languajes | |
| **Iso639\_1** | name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| crew | | | | | |
| **id** | **IdCredit** | name | gender | job | dpeartment |

4.3 Tercera Forma Normal

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| crew | | | | | | |
| **IdCredit** | | index | IdJob | | IdWorker | IdMovie |
| departments | | | |
| **IdDepartment** | department | | |

|  |  |  |
| --- | --- | --- |
| jobs | | |
| **IdJob** | JobWroker | IdDepartment |

|  |  |
| --- | --- |
| workers | |
| **IdWorker** | NameWorker |

# Modelo físico de tablas

Imagen que contiene Tabla

Descripción generada automáticamente

# Estrategia de carga de datos

Se crea tablas temporales a través del ciclo loop para poder generar tablas limpias.

Texto

Descripción generada automáticamenteInterfaz de usuario gráfica, Texto

Descripción generada automáticamenteTexto

Descripción generada automáticamente