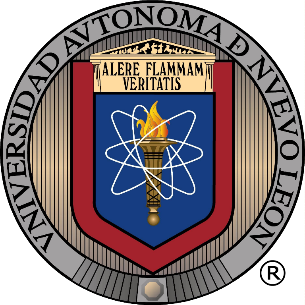
Logotipo

Descripción generada automáticamente

UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN

Facultad de Ciencias Físico Matemáticas

Licenciatura en Multimedia y Animación Digital

Bases de datos multimedia

Proyecto integrador de aprendizaje

Segunda entrega

Modelo relacional y diagrama SQL

**Grupo:** 004

**Profesor(a):** Lic. Gamaliel Lara Martínez

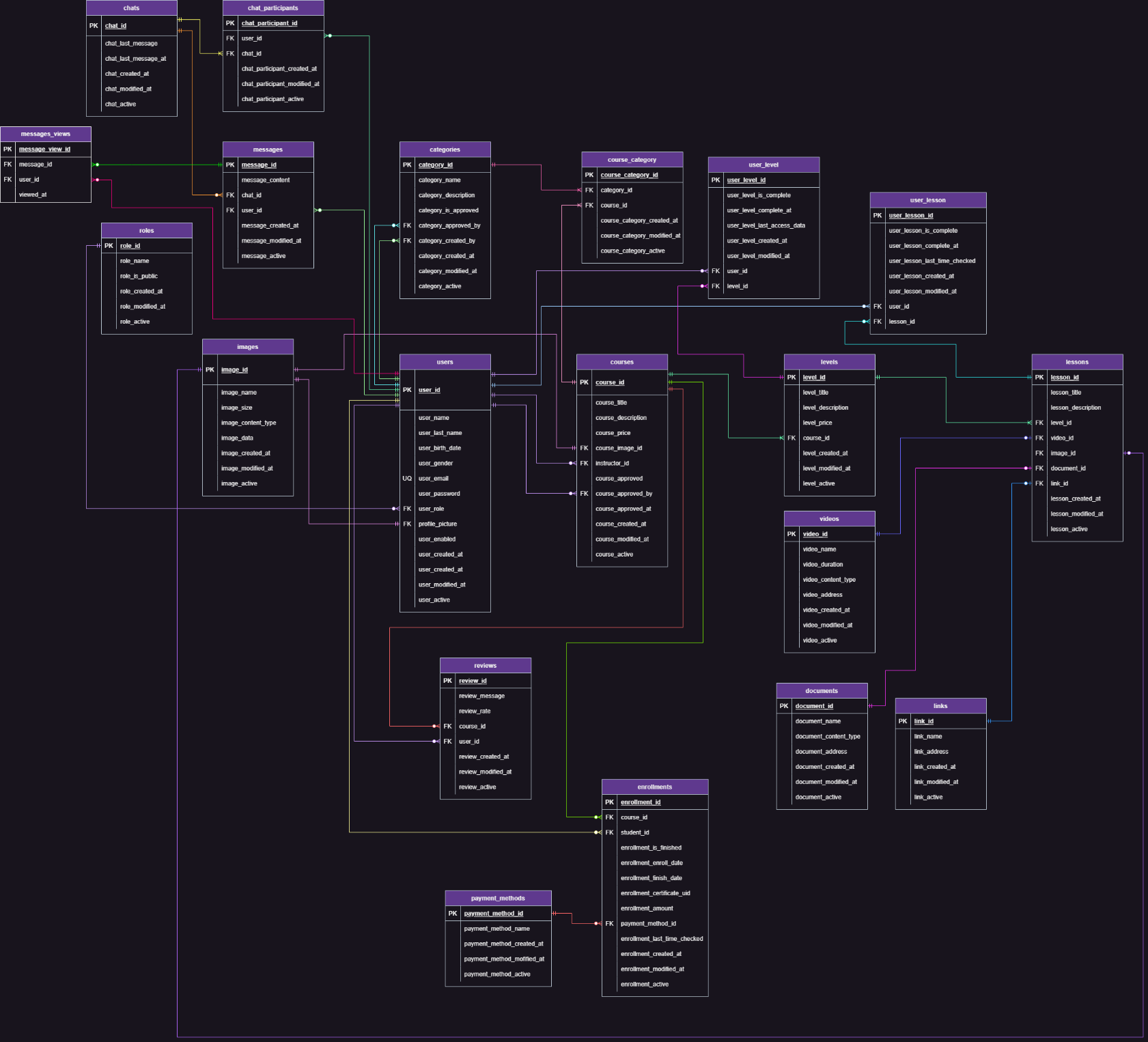
**Integrantes:**

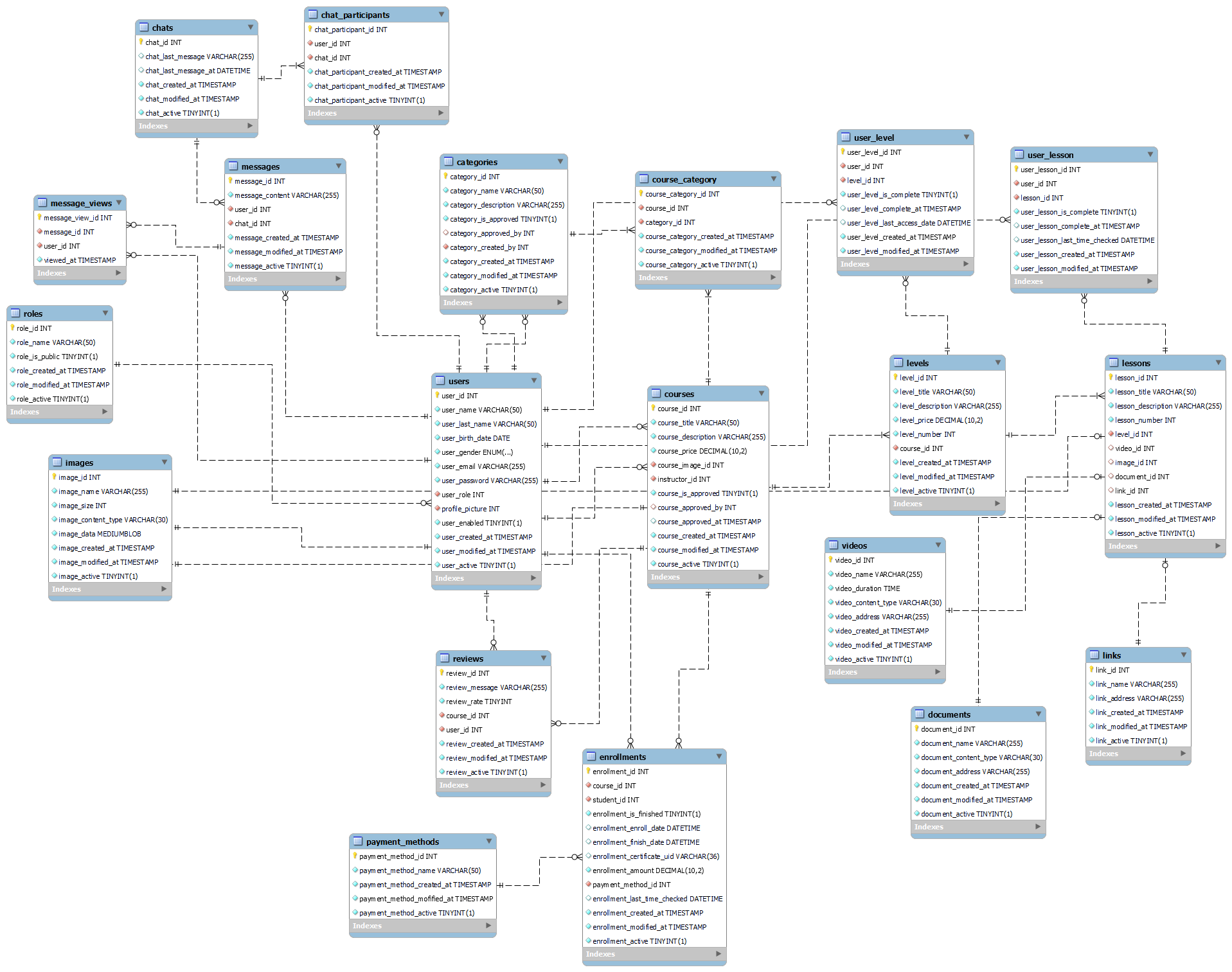
Denisse Alejandra Cardoza Pezina 1896868

Eliam Rodríguez Pérez 1898666

San Nicolás de los Garza, Nuevo León a 28 de marzo de 2023

**Modelo relacional**



**Diagrama SQL**

**Diseño de la base de datos**

**categories**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| category\_id | int | YES | NO |  |
| category\_name | varchar(50) |  | NO |  |
| category\_description | varchar(255) |  | NO |  |
| category\_is\_approved | tinyint(1) |  | NO | 0 |
| category\_approved\_by | int |  | YES |  |
| category\_created\_by | int |  | NO |  |
| category\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| category\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| category\_active | tinyint(1) |  | NO | 1 |

**chat\_participants**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| chat\_participant\_id | int | YES | NO |  |
| user\_id | int |  | NO |  |
| chat\_id | int |  | NO |  |
| chat\_participant\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| chat\_participant\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| chat\_participant\_active | tinyint(1) |  | NO | 1 |

**chats**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| chat\_id | int | YES | NO |  |
| chat\_last\_message | varchar(255) |  | YES |  |
| chat\_last\_message\_at | datetime |  | YES |  |
| chat\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| chat\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| chat\_active | tinyint(1) |  | NO | 1 |

**course\_category**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| course\_category\_id | int | YES | NO |  |
| course\_id | int |  | NO |  |
| category\_id | int |  | NO |  |
| course\_category\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| course\_category\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| course\_category\_active | tinyint(1) |  | NO | 1 |

**courses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| course\_id | int | YES | NO |  |
| course\_title | varchar(50) |  | NO |  |
| course\_description | varchar(255) |  | NO |  |
| course\_price | decimal(10,2) |  | NO |  |
| course\_image\_id | int |  | NO |  |
| instructor\_id | int |  | NO |  |
| course\_approved | tinyint(1) |  | NO | 0 |
| course\_approved\_by | int |  | YES |  |
| course\_approved\_at | timestamp |  | YES |  |
| course\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| course\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| course\_active | tinyint(1) |  | NO | 1 |

**documents**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| document\_id | int | YES | NO |  |
| document\_name | varchar(255) |  | NO |  |
| document\_content\_type | varchar(30) |  | NO |  |
| document\_address | varchar(255) |  | NO |  |
| document\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| document\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| document\_active | tinyint(1) |  | NO | 1 |

**enrollments**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| enrollment\_id | int | YES | NO |  |
| course\_id | int |  | NO |  |
| student\_id | int |  | NO |  |
| enrollment\_is\_finished | tinyint(1) |  | NO | 0 |
| enrollment\_enroll\_date | datetime |  | YES |  |
| enrollment\_finish\_date | datetime |  | YES |  |
| enrollment\_certificate\_uid | varchar(36) |  | YES |  |
| enrollment\_amount | decimal(10,2) |  | NO |  |
| payment\_method\_id | int |  | NO |  |
| enrollment\_last\_time\_checked | datetime |  | YES |  |
| enrollment\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| enrollment\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| enrollment\_active | tinyint(1) |  | NO | 1 |

**images**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| image\_id | int | YES | NO |  |
| image\_name | varchar(255) |  | NO |  |
| image\_size | int |  | NO |  |
| image\_content\_type | varchar(30) |  | NO |  |
| image\_data | mediumblob |  | NO |  |
| image\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| image\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| image\_active | tinyint(1) |  | NO | 1 |

**lessons**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| lesson\_id | int | YES | NO |  |
| lesson\_title | varchar(50) |  | NO |  |
| lesson\_description | varchar(255) |  | NO |  |
| lesson\_number | int |  | NO |  |
| level\_id | int |  | NO |  |
| video\_id | int |  | YES |  |
| image\_id | int |  | YES |  |
| document\_id | int |  | YES |  |
| link\_id | int |  | YES |  |
| lesson\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| lesson\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| lesson\_active | tinyint(1) |  | NO | 1 |

**levels**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| level\_id | int | YES | NO |  |
| level\_title | varchar(50) |  | NO |  |
| level\_description | varchar(255) |  | NO |  |
| level\_price | decimal(10,2) |  | NO |  |
| level\_number | int |  | NO |  |
| course\_id | int |  | NO |  |
| level\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| level\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| level\_active | tinyint(1) |  | NO | 1 |

**links**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| link\_id | int | YES | NO |  |
| link\_name | varchar(255) |  | NO |  |
| link\_address | varchar(255) |  | NO |  |
| link\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| link\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| link\_active | tinyint(1) |  | NO | 1 |

**message\_views**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| message\_view\_id | int | YES | NO |  |
| message\_id | int |  | NO |  |
| user\_id | int |  | NO |  |
| viewed\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |

**messages**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| message\_id | int | YES | NO |  |
| message\_content | varchar(255) |  | NO |  |
| user\_id | int |  | NO |  |
| chat\_id | int |  | NO |  |
| message\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| message\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| message\_active | tinyint(1) |  | NO | 1 |

**payment\_methods**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| payment\_method\_id | int | YES | NO |  |
| payment\_method\_name | varchar(50) |  | NO |  |
| payment\_method\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| payment\_method\_mofified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| payment\_method\_active | tinyint(1) |  | NO | 1 |

**reviews**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| review\_id | int | YES | NO |  |
| review\_message | varchar(255) |  | NO |  |
| review\_rate | tinyint |  | NO |  |
| course\_id | int |  | NO |  |
| user\_id | int |  | NO |  |
| review\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| review\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| review\_active | tinyint(1) |  | NO | 1 |

**roles**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| role\_id | int | YES | NO |  |
| role\_name | varchar(50) |  | NO |  |
| role\_is\_public | tinyint(1) |  | NO | 1 |
| role\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| role\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| role\_active | tinyint(1) |  | NO | 1 |

**user\_lesson**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| user\_lesson\_id | int | YES | NO |  |
| user\_id | int |  | NO |  |
| lesson\_id | int |  | NO |  |
| user\_lesson\_is\_complete | tinyint(1) |  | NO | 0 |
| user\_lesson\_complete\_at | timestamp |  | YES |  |
| user\_lesson\_last\_time\_checked | datetime |  | YES |  |
| user\_lesson\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| user\_lesson\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |

**user\_level**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| user\_level\_id | int | YES | NO |  |
| user\_id | int |  | NO |  |
| level\_id | int |  | NO |  |
| user\_level\_is\_complete | tinyint(1) |  | NO | 0 |
| user\_level\_complete\_at | timestamp |  | YES |  |
| user\_level\_last\_access\_date | datetime |  | YES |  |
| user\_level\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| user\_level\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |

**users**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| user\_id | int | YES | NO |  |
| user\_name | varchar(50) |  | NO |  |
| user\_last\_name | varchar(50) |  | NO |  |
| user\_birth\_date | date |  | NO |  |
| user\_gender | enum('Masculino','Femenino','Otro') |  | NO |  |
| user\_email | varchar(255) |  | NO |  |
| user\_password | varchar(255) |  | NO |  |
| user\_role | int |  | NO |  |
| profile\_picture | int |  | NO |  |
| user\_enabled | tinyint(1) |  | NO | 1 |
| user\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| user\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| user\_active | tinyint(1) |  | NO | 1 |

**videos**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Type | PK | Nullable | Default |
| video\_id | int | YES | NO |  |
| video\_name | varchar(255) |  | NO |  |
| video\_duration | time |  | NO |  |
| video\_content\_type | varchar(30) |  | NO |  |
| video\_address | varchar(255) |  | NO |  |
| video\_created\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| video\_modified\_at | timestamp |  | NO | CURRENT\_TIMESTAMP |
| video\_active | tinyint(1) |  | NO | 1 |