|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |

1. Bảng topic (Chủ đề)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | topic\_id | smallint | x |  | x |  | auto increment |
| 2 | topic\_name\_en | varchar(50) |  |  | x | x |  |
| 3 | topic\_name\_vi | varchar(50) |  |  | x | x |  |
| 4 | image | varchar(200) |  |  | x |  |  |
| 5 | level | smallint |  |  | x | x |  |

1. Bảng word\_en (từ vựng tiếng anh)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | word\_id | smallint | x |  | x |  | auto increment |
| 2 | word | varchar(50) |  |  | x | x |  |
| 3 | topic\_id | smallint |  | x | x |  |  |
| 4 | spelling | varchar(100) |  |  | x |  |  |
| 5 | voice | varchar(200) |  |  | x | x |  |
| 6 | image | varchar(200) |  |  | x |  |  |
| 7 | meaning\_1 | varchar(50) |  |  | x |  |  |
| 8 | meaning\_2 | varchar(50) |  |  |  |  |  |
| 9 | meaning\_3 | varchar(50) |  |  |  |  |  |
| 10 | example\_sentence | varchar(200) |  |  | x |  |  |

1. Bảng examination\_category (kiểu kiểm tra)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | examination\_category\_id | tinyint | x |  | x |  |  |
| 2 | examination\_category\_name | varchar(100) |  |  | x | x |  |
| 3 | description | varchar(255) |  |  |  |  |  |

1. Bảng examination

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | examination\_id | int | x |  | x |  |  |
| 2 | user\_id | mediumint |  | x | x |  |  |
| 3 | level | smallint |  |  | x |  |  |
| 4 | created\_at | datetime |  |  | x |  |  |
| 5 | updated\_at | datetime |  |  |  |  |  |
| 6 | star | tinyint |  |  |  |  |  |

1. Bảng examination\_part

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | examination\_part\_id | int | x |  | x |  |  |
| 2 | examination \_id | int |  | x | x |  |  |
| 3 | examination\_category\_id | tinyint |  | x | x |  |  |
| 4 | point | tinyint |  |  |  |  |  |
| 5 | created\_at | datetime |  |  | x |  |  |
| 6 | updated\_at | datetime |  |  |  |  |  |

1. Bảng examination\_question

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | examination\_question\_id | bigint | x |  | x |  |  |
| 2 | examination\_part\_id | int |  | x | x |  |  |
| 3 | question\_number | tinyint |  |  | x |  |  |
| 4 | word\_id | smallint |  | x | x |  |  |
| 5 | result | boolean |  |  |  |  |  |
| 6 | created\_at | datetime |  |  | x |  |  |
| 7 | updated\_at | datetime |  |  |  |  |  |

1. Bảng field\_of\_study

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | field\_id | tinyint | x |  | x |  |  |
| 2 | field\_name | varchar(100) |  |  | x | x |  |
| 3 | description | varchar(200) |  |  |  |  |  |

1. Bảng level\_up\_history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id | mediumint | x | x | x |  |  |
| 2 | field\_id | tinyint | x | x | x |  |  |
| 3 | level\_up\_to | smallint | x |  | x |  |  |
| 4 | level\_up\_at | datetime |  |  | x |  |  |

1. Bảng currently\_level

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id | mediumint | x | x | x |  |  |
| 2 | field\_id | tinyint | x | x | x |  |  |
| 3 | currently\_level | smallint | x |  | x |  |  |

1. Bảng level\_result.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id | mediumint |  | x | x |  |  |
| 2 | level | smallint |  |  | x |  |  |
| 3 | point | smallint |  |  | x |  |  |
| 4 | star | tinyint |  |  | x |  |  |

1. Bảng user

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id | mediumint | x | x | x |  |  |
| 2 | admin | boolean |  |  | x |  |  |
| 3 | username | varchar(20) |  |  | x | x |  |
| 4 | password | varchar(100) |  |  | x |  |  |
| 5 | email | varchar(100) |  |  |  | x |  |
| 6 | birthday | date |  |  |  |  |  |
| 7 | job | varchar(100) |  |  |  |  |  |
| 8 | avatar | varchar(200) |  |  |  |  |  |
| 9 | working\_at | varchar(200) |  |  |  |  |  |
| 10 | created\_at | datetime |  |  | x |  |  |
| 11 | updated\_at | datetime |  |  |  |  |  |

1. Bảng user\_status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id |  | x | x |  |  |
| 2 | online |  |  | x |  |  |
| 3 | created\_at |  |  | x |  |  |
| 4 | updated\_at |  |  |  |  |  |

1. Bảng game

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | game\_id | tinyint | x |  | x |  |  |
| 2 | game\_name | varchar(100) |  |  | x | x |  |
| 3 | description | varchar(255) |  |  |  |  |  |

1. Bảng game\_point

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id | mediumint |  | x | x |  |  |
| 2 | game\_id | tinyint |  | x | x |  |  |
| 3 | point | smallint |  |  | x |  |  |
| 4 | created\_at | datetime |  |  | x |  |  |
| 5 | updated\_at | datetime |  |  |  |  |  |

1. Bảng max\_game\_point

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id | mediumint |  |  | x |  |  |
| 2 | game\_id | tinyint |  | x | x |  |  |
| 3 | point | smallint |  |  | x |  |  |
| 4 | created\_at | datetime |  |  | x |  |  |
| 5 | updated\_at | datetime |  |  |  |  |  |

1. Bảng weekly\_rank

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | rank\_name | varchar(200) |  |  | x | x |  |
| 2 | begin\_date | date |  |  | x |  |  |
| 3 | finish\_date | date |  |  | x |  |  |
| 4 | user\_id | mediumint |  | x | x |  |  |
| 5 | point | smallint |  |  | x |  |  |
| 6 | position | tinyint |  |  | x |  |  |

1. Bảng monthly\_rank

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | rank\_name | varchar(200) |  |  | x | x |  |
| 2 | begin\_date | date |  |  | x |  |  |
| 3 | finish\_date | date |  |  | x |  |  |
| 4 | user\_id | mediumint |  |  | x |  |  |
| 5 | point | smallint |  |  | x |  |  |
| 6 | position | tinyint |  |  | x |  |  |

1. Bảng achievement\_category

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | achievement\_id | tinyint | x |  | x |  |  |
| 2 | achievement\_name | varchar(200) |  |  | x | x |  |
| 3 | num\_of\_plays | int |  |  | x |  |  |

1. Bảng num\_of\_achieved

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id | mediumint |  |  | x |  |  |
| 2 | achievement\_id | tinyint |  |  | x |  |  |
| 3 | num\_of\_achieved | smallint |  |  | x |  |  |

1. Bảng

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STT** | **Tên cột** | **Kiểu DL** | **Khóa chính** | **Khóa ngoại** | **Not null** | **Unique** | **Ghi chú** |
| 1 | user\_id | mediumint |  |  |  |  |  |
| 2 | achievement\_id | tinyint |  |  |  |  |  |
| 3 | achieved\_detail | varchar(255) |  |  |  |  |  |
| 4 | achieved\_date | date |  |  |  |  |  |