**WEB PROGRAMMING PROJECT**

### Project Infomation

Project Name: VaniBao Bookstore

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Last Update Date: 2022-08-19

Develop language: html CSS PHP

Develop IDE: VS Code

### Website Design Purpose

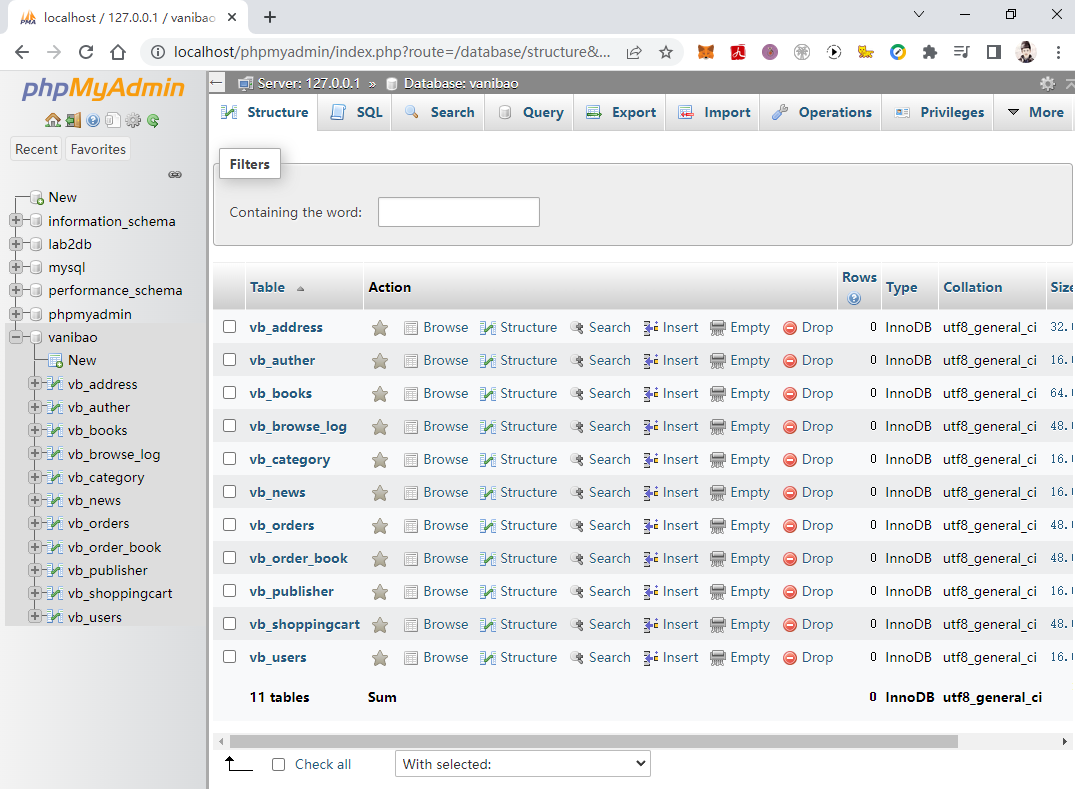
Create an online bookstore where readers and Vanier College students can purchase a variety of paper books, teaching materials, extracurricular interest books, and online e-books.

And provide online bookstore management functions.

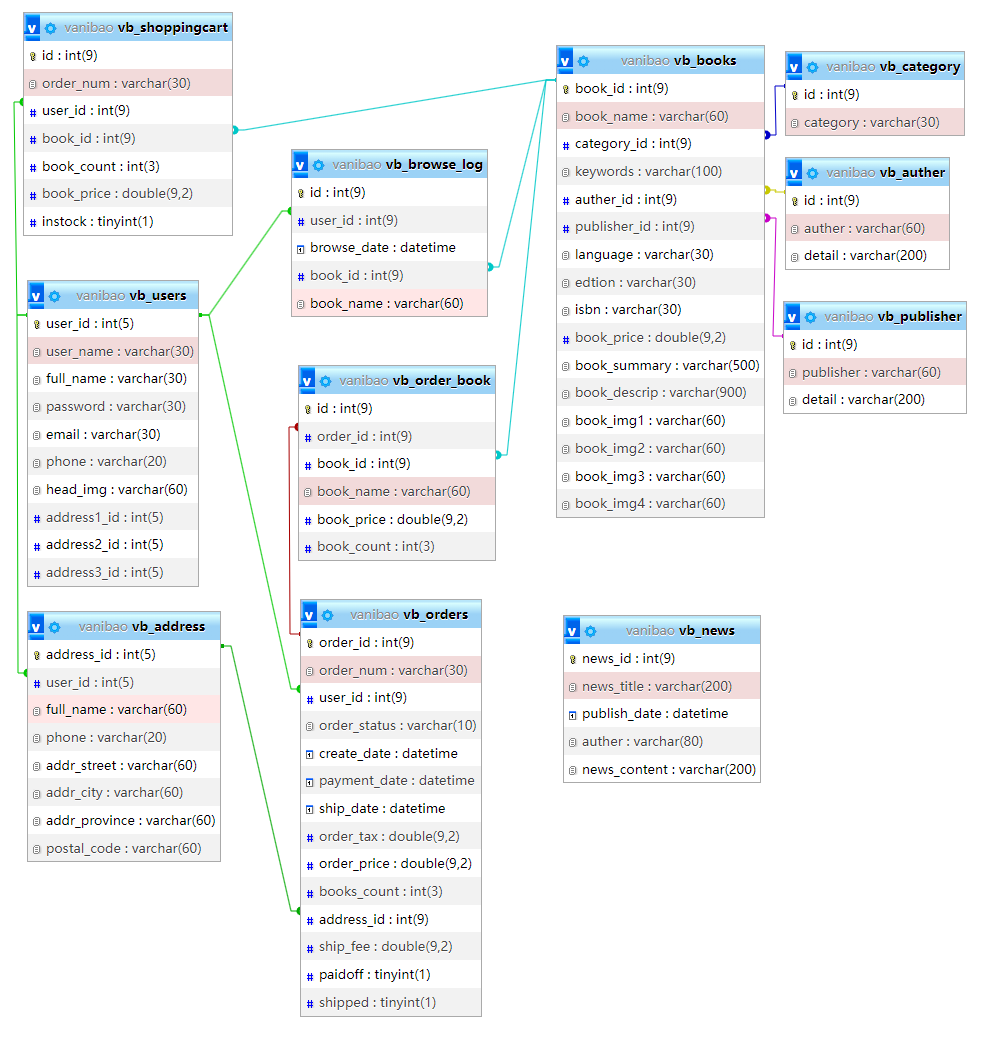
**Database Design Purpose**

**vb\_users** is the user table, who browser log records in **vb\_browse\_log** table, **vb\_orders** references user’s idfrom **vb\_users** andaddress idfrom **vb\_address, vb\_order\_book** table builds relationship between **vb\_orders** and **vb\_books** with order\_id from **vb\_orders** andbook\_id from **vb\_books. Then vb\_books** table store all the detail of books which references from **vb\_category, vb\_auther** and **vb\_publisher**.

**Database Tables Imported in phpMyAdmin**



**Database ER Diagram**



**Database Schema Design**

* User Table : vb\_users

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| user\_id | INT | PK | Primary Key |
| user\_name | VARCHAR(60) |  | login name |
| full\_name | VARCHAR(60) |  | nick name |
| password | VARCHAR(80) | NOT NULL | password char |
| email | VARCHAR(80) |  | email address |
| phone | VARCHAR(20) |  | phone number |
| head\_img | VARCHAR(60) |  | head image |
| address1\_id | INT |  | user's address 1 |
| address2\_id | INT |  | user's address 2 |
| address3\_id | INT |  | user's address 3 |

* Book Table : vb\_books

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| book\_id | INT | PK | Primary Key |
| book\_name | VARCHAR(60) |  | book's name |
| category\_id | INT | FK | category ID |
| keywords | VARCHAR(100) |  | keywords |
| auther\_id | INT | FK | auther ID |
| publisher\_id | INT | FK | publisher ID |
| language | VARCHAR(30) |  | language |
| edtion | VARCHAR(30) |  | edtion |
| isbn | VARCHAR(30) |  | ISBN |
| book\_price | DOUBLE(9,2) |  | book's price |
| book\_summary | VARCHAR(500) |  | summary |
| book\_descrip | VARCHAR(900) |  | description |
| book\_img | VARCHAR(60) |  | book's image |

* Address Table : vb\_address

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| address\_id | INT | PK | Primary Key |
| user\_id | INT | FK | user's ID |
| full\_name | VARCHAR(60) |  | postal name |
| phone | VARCHAR(20) |  | phone number |
| addr\_street | VARCHAR(60) |  | postal street |
| addr\_city | VARCHAR(20) |  | postal city |
| addr\_province | VARCHAR(20) |  | postal province |
| postal\_code | VARCHAR(10) |  | postal code |

* Order Table : vb\_orders

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| order\_id | INT | PK | Primary Key |
| order\_num | VARCHAR(60) | NOT NULL | order number |
| user\_id | INT | FK | order user ID |
| order\_status | VARCHAR(10) |  | order's status |
| create\_date | DATETIME |  | create time |
| payment\_date | DATETIME |  | payment time |
| ship\_date | DATETIME |  | delivery time |
| order\_tax | DOUBLE(9,2) |  | order taxes |
| order\_price | DOUBLE(9,2) |  | order sum price |
| books\_count | INT |  | how many books |
| address\_id | INT | FK | order address |
| ship\_fee | DOUBLE(9,2) |  | ship fee |
| paidoff | BOOLEAN |  | paid off or not |
| shipped | BOOLEAN |  | shipped or not |

* Ordered Books : vb\_order\_book

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| id | INT | PK | Primary Key |
| order\_id | INT | FK | Order ID |
| book\_id | INT | FK | book's ID |
| book\_name | VARCHAR(60) |  | book's name |
| book\_price | DOUBLE(9,2) |  | book's price |
| book\_count | INT |  | books amount |

* Shopping Cart : vb\_shoppingcart

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| id | INT | PK | Primary Key |
| order\_num | VARCHAR(30) | FK | order number |
| user\_id | INT | FK | user's ID |
| book\_id | INT | FK | book's ID |
| book\_count | INT |  | books amount |
| book\_price | DOUBLE(9,2) |  | book price |
| instock | BOOLEAN |  | available or not |

* vb\_browse\_log

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| id | INT | PK | Primary Key |
| user\_id | INT | FK | user's ID |
| browse\_date | DATETIME |  | browse time |
| book\_id | INT | FK | book's ID |
| book\_name | VARCHAR(60) |  | book's name |

* vb\_category

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| id | INT | PK | Primary Key |
| category | VARCHAR(30) |  | category |

* vb\_auther

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| id | INT | PK | Primary Key |
| auther | VARCHAR(60) |  | auther name |
| detail | VARCHAR(200) |  | auther detail |

* vb\_publisher

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| id | INT | PK | Primary Key |
| publisher | VARCHAR(60) |  | publisher name |
| detail | VARCHAR(200) |  | publisher detail |

* vb\_news

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Constraint** | **Description** |
| news\_id | INT | PK | Primary Key |
| news\_title | VARCHAR(200) |  | news title |
| publish\_date | DATETIME |  | publish time |
| auther | VARCHAR(80) |  | auther |
| news\_content | VARCHAR(200) |  | news title |

**Database SQL statement**

1. **DROP** **DATABASE** IF EXISTS `vanibao`;
3. **CREATE** **DATABASE** IF NOT EXISTS vanibao **DEFAULT** **CHARACTER** **SET** utf8 **COLLATE** utf8\_general\_ci;
4. USE `vanibao`;
5. **SET** FOREIGN\_KEY\_CHECKS = 0;
7. **DROP** **TABLE** IF EXISTS vb\_users;
8. **DROP** **TABLE** IF EXISTS vb\_books;
9. **DROP** **TABLE** IF EXISTS vb\_address;
10. **DROP** **TABLE** IF EXISTS vb\_orders;
11. **DROP** **TABLE** IF EXISTS vb\_order\_book;
12. **DROP** **TABLE** IF EXISTS vb\_shoppingcart;
13. **DROP** **TABLE** IF EXISTS vb\_browse\_log;
14. **DROP** **TABLE** IF EXISTS vb\_category;
15. **DROP** **TABLE** IF EXISTS vb\_news;

18. **CREATE** **TABLE** vb\_users (
19. user\_id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
20. user\_name **VARCHAR**(30),
21. full\_name **VARCHAR**(30),
22. **password** **VARCHAR**(30),
23. email **VARCHAR**(30),
24. phone **VARCHAR**(20),
25. head\_img **VARCHAR**(60),
26. address1\_id **INT**(9),
27. address2\_id **INT**(9),
28. address3\_id **INT**(9));
30. **CREATE** **TABLE** vb\_address (
31. address\_id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
32. user\_id **INT**(9),
33. full\_name **VARCHAR**(60),
34. phone **VARCHAR**(20),
35. addr\_street **VARCHAR**(60),
36. addr\_city **VARCHAR**(60),
37. addr\_province **VARCHAR**(60),
38. postal\_code **VARCHAR**(60),
39. **FOREIGN** **KEY** (user\_id) **REFERENCES** vb\_users(user\_id));
41. **CREATE** **TABLE** vb\_category (
42. id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
43. category **VARCHAR**(30));
45. **CREATE** **TABLE** vb\_auther (
46. id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
47. auther **VARCHAR**(60),
48. detail **VARCHAR**(200));
50. **CREATE** **TABLE** vb\_publisher (
51. id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
52. publisher **VARCHAR**(60),
53. detail **VARCHAR**(200));
55. **CREATE** **TABLE** vb\_books (
56. book\_id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
57. book\_name **VARCHAR**(60),
58. category\_id **INT**(9),
59. keywords **VARCHAR**(100),
60. auther\_id **INT**(9),
61. publisher\_id **INT**(9),
62. language **VARCHAR**(30),
63. edtion **VARCHAR**(30),
64. isbn **VARCHAR**(30),
65. book\_price **DOUBLE**(9,2),
66. book\_summary **VARCHAR**(500),
67. book\_descrip **VARCHAR**(900),
68. book\_img1 **VARCHAR**(60),
69. book\_img2 **VARCHAR**(60),
70. book\_img3 **VARCHAR**(60),
71. book\_img4 **VARCHAR**(60),
72. **FOREIGN** **KEY** (category\_id) **REFERENCES** vb\_category(id),
73. **FOREIGN** **KEY** (auther\_id) **REFERENCES** vb\_auther(id),
74. **FOREIGN** **KEY** (publisher\_id) **REFERENCES** vb\_publisher(id));
76. **CREATE** **TABLE** vb\_orders (
77. order\_id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
78. order\_num **VARCHAR**(30),
79. user\_id **INT**(9),
80. order\_status **VARCHAR**(10),
81. create\_date DATETIME,
82. payment\_date DATETIME,
83. ship\_date DATETIME,
84. order\_tax **DOUBLE**(9,2),
85. order\_price **DOUBLE**(9,2),
86. books\_count **INT**(3),
87. address\_id **INT**(9),
88. ship\_fee **DOUBLE**(9,2),
89. paidoff BOOLEAN,
90. shipped BOOLEAN,
91. **FOREIGN** **KEY** (user\_id) **REFERENCES** vb\_users(user\_id),
92. **FOREIGN** **KEY** (address\_id) **REFERENCES** vb\_address(address\_id));
94. **CREATE** **TABLE** vb\_order\_book (
95. id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
96. order\_id **INT**(9),
97. book\_id **INT**(9),
98. book\_name **VARCHAR**(60),
99. book\_price **DOUBLE**(9,2),
100. book\_count **INT**(3),
101. **FOREIGN** **KEY** (order\_id) **REFERENCES** vb\_orders(order\_id),
102. **FOREIGN** **KEY** (book\_id) **REFERENCES** vb\_books(book\_id));
104. **CREATE** **TABLE** vb\_shoppingcart (
105. id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
106. order\_num **VARCHAR**(30),
107. user\_id **INT**(9),
108. book\_id **INT**(9),
109. book\_count **INT**(3),
110. book\_price **DOUBLE**(9,2),
111. instock BOOLEAN,
112. **FOREIGN** **KEY** (user\_id) **REFERENCES** vb\_users(user\_id),
113. **FOREIGN** **KEY** (book\_id) **REFERENCES** vb\_books(book\_id));
115. **CREATE** **TABLE** vb\_browse\_log (
116. id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
117. user\_id **INT**(9),
118. browse\_date DATETIME,
119. book\_id **INT**(9),
120. book\_name **VARCHAR**(60),
121. **FOREIGN** **KEY** (user\_id) **REFERENCES** vb\_users(user\_id),
122. **FOREIGN** **KEY** (book\_id) **REFERENCES** vb\_books(book\_id));

125. **CREATE** **TABLE** vb\_news (
126. news\_id **INT**(9) **PRIMARY** **KEY** AUTO\_INCREMENT,
127. news\_title **VARCHAR**(200),
128. publish\_date  DATETIME,
129. auther **VARCHAR**(80),
130. news\_content **VARCHAR**(200));

**VaniBao Bookstore Project link:**

https://github.com/polluxbao/vanibao-bookstore