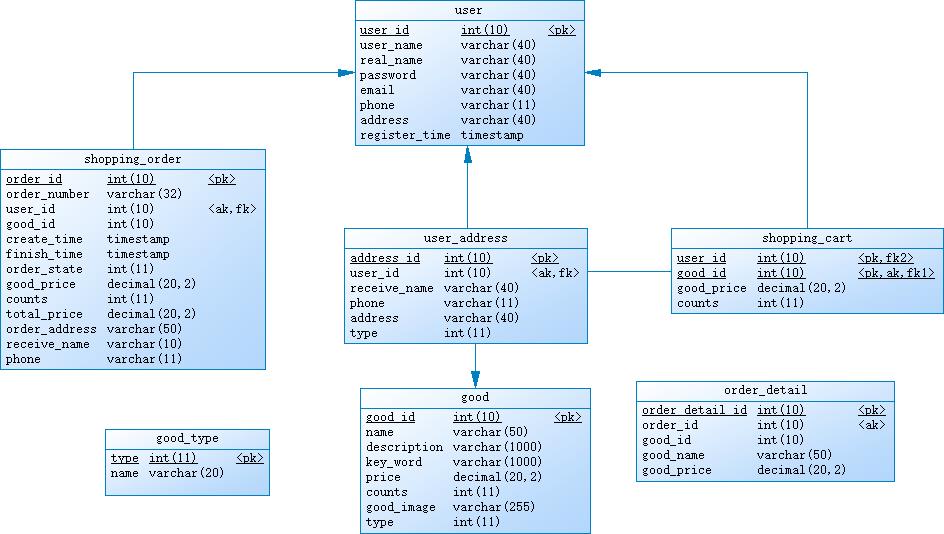
网上商城数据库设计文档

## 数据库总体设计



数据库总体设计ER图

## 表格汇总

|  |  |  |
| --- | --- | --- |
| 序号 | 表名称 | 说明 |
| 1 | user | 存储用户的信息 |
| 2 | user\_address | 存储用户的收货地址 |
| 3 | good | 存储商品信息 |
| 4 | good\_type | 存储商品分类信息 |
| 5 | shopping\_order | 存储用户的订单 |
| 6 | order\_detail | 存储用户订单中商品的信息 |
| 7 | shopping\_cart | 存储用户的购物车信息 |

## 各表信息

1．用户的信息表(user)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **序号** | **中文描述** | **列名** | **类型及精度** | **数据说明** |
| 1 | 自增id  主键 | user\_id | INT(10)  PRIMARY KEY | UNSIGNED ZEROFILL NOT NULL AUTO\_INCREAMENT |
| 2 | 用户名 | user\_name | VARCHAR(40) | NOT NULL |
| 3 | 真实姓名 | real\_name | VARCHAR(40) |  |
| 4 | 密码 | password | VARCHAR(40) | NOT NULL |
| 5 | 邮箱 | email | VARCHAR(40) | NOT NULL |
| 6 | 手机 | phone | VARCHAR(11) |  |
| 7 | 地址 | address | VARCHAR(40) |  |
| 8 | 注册时间 | register\_time | TIMESTAMP | NOT NULL |

2. 收货地址表(user\_address)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **序号** | **中文描述** | **列名** | **类型及精度** | **数据说明** |
| 1 | 收货地址自增id | address\_id | INT(10)  PRIMARY KEY | UNSIGNED ZEROFILL NOT NULL AUTO\_INCREMENT |
| 2 | 用户id | user\_id | INT(10) | UNSIGNED Zerofill NOT NULL |
| 3 | 收货人姓名 | receive\_name | VARCHAR(40) | DEFAULT '' |
| 4 | 收货人手机号码 | phone | VARCHAR(11) | DEFAULT '' |
| 5 | 收货地址 | address | VARCHAR(40) | DEFAULT '' |
| 6 | 是否为默认地址0不是，1是 | type | INT | DEFAULT 0 |

3. 商品描述表(good)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **序号** | **中文描述** | **列名** | **类型及精度** | **数据说明** |
| 1 | 商品自增id | good\_id | INT(10)  PRIMARY KEY | unsigned zerofill NOT NULL AUTO\_INCREMENT |
| 2 | 商品名称 | name | VARCHAR(50) | NOT NULL |
| 3 | 商品描述 | description | VARCHAR(1000) | NOT NULL |
| 4 | 商品的关键字 | key\_word | VARCHAR(1000) | NOT NULL |
| 5 | 商品价格 | price | DECIMAL(20,2) | NOT NULL |
| 6 | 商品的库存 | counts | INT | NOT NULL |
| 7 | 商品的图片 | good\_image | VARCHAR(255) |  |
| 8 | 商品所属分类 | type | INT | NOT NULL COMMENT |

4. 商品分类表(good\_type)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **序号** | **中文描述** | **列名** | **类型及精度** | **数据说明** |
| 1 | 商品自增id | type | INT  PRIMARY KEY | not null AUTO\_INCREMENT |
| 2 | 商品名称 | name | VARCHAR(20) | NOT NULL |

5. 订单表(order)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **序号** | **中文描述** | **列名** | **类型及精度** | **数据说明** |
| 1 | 商品自增id | order\_id | INT(10)  PRIMARY KEY | UNSIGNED ZEROFILL AUTO\_INCREMENT |
| 2 | 订单号码 | order\_number | VARCHAR(32) | NOT NULL |
| 3 | 用户id | user\_id | INT(10) | UNSIGNED ZEROFILL NOT NULL |
| 4 | 商品id | good\_id | INT(10) | unsigned zerofill NOT NULL |
| 5 | 订单创建时间 | create\_time | TIMESTAMP | not null |
| 6 | 订单完成时间 | finish\_time | TIMESTAMP | not null |
| 7 | 订单状态 | order\_state | INT | not null |
| 8 | 订单商品价格 | good\_price | DECIMAL(20,2) | not null |
| 9 | 订单商品数量 | counts | INT | not null |
| 10 | 订单总价 | total\_price | DECIMAL(20,2) | decimal(20,2) |
| 11 | 订单收货地址 | order\_address | VARCHAR(50) | VARCHAR(50) |
| 12 | 收货人姓名 | receive\_name | VARCHAR(10) | VARCHAR(10) |
| 13 | 收货人手机号 | phone | VARCHAR(11) | VARCHAR(11) |

6. 订单详情表(order\_detail)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **序号** | **中文描述** | **列名** | **类型及精度** | **数据说明** |
| 1 | 订单详情自增id | order\_detail\_id | INT(10)  PRIMARY KEY | UNSIGNED ZEROFILL AUTO\_INCREMENT |
| 2 | 订单id | order\_id | INT(10) | UNSIGNED ZEROFILL |
| 3 | 商品id | good\_id | INT(10) | UNSIGNED ZEROFILL NOT NULL |
| 4 | 商品名称 | good\_name | VARCHAR(50) | UNSIGNED ZEROFILL NOT NULL |
| 5 | 订单商品价格 | good\_price | DECIMAL(20,2) | NOT NULL |

附：

**CREATE DATABASE** webmarket;  
  
**use** webmarket;  
  
**'用户表'  
create TABLE user**(  
 **`user\_id` int**(10) **unsigned zerofill NOT NULL AUTO\_INCREMENT COMMENT '用户id'**,  
 **`user\_name` VARCHAR**(40) **NOT NULL COMMENT '用户登录名'**,  
 **`real\_name` VARCHAR**(40) **DEFAULT '' COMMENT '用户真实姓名'**,  
 **`password` VARCHAR**(40) **NOT NULL COMMENT '密码'**,  
 **`email` VARCHAR**(40) **NOT NULL COMMENT '邮箱'**,  
 **`phone` VARCHAR**(11) **DEFAULT '' COMMENT '手机号码'**,  
 **`address` VARCHAR**(40) **DEFAULT '' COMMENT '地址'**,  
 **`register\_time` TIMESTAMP not null COMMENT '注册时间'**,  
 **primary key** (**user\_id**)  
)**ENGINE**=INNODB **DEFAULT CHARSET**=utf8 **COMMENT**=**'用户表'**;  
  
  
**'收货地址表'  
create TABLE** user\_address(  
 **`address\_id` int**(10) **unsigned zerofill NOT NULL AUTO\_INCREMENT COMMENT '地址id'**,  
 **`user\_id` int**(10) **unsigned zerofill NOT NULL COMMENT '用户id'**,  
 **`receive\_name` VARCHAR**(40) **DEFAULT '' COMMENT '收货人姓名'**,  
 **`phone` VARCHAR**(11) **DEFAULT '' COMMENT '手机号码'**,  
 **`address` VARCHAR**(40) **DEFAULT '' COMMENT '收货人地址'**,  
 **`type` int not null DEFAULT** 0 **COMMENT '是否为默认地址0不是，1是'**,  
 **primary key** (**address\_id**),  
 **FOREIGN KEY** (**user\_id**) **REFERENCES user**(**user\_id**)  
)**ENGINE**=INNODB **DEFAULT CHARSET**=utf8 **COMMENT**=**'收货地址表'**;  
  
**'商品描述表'  
CREATE TABLE** good(  
 **`good\_id` int**(10) **unsigned zerofill NOT NULL AUTO\_INCREMENT COMMENT '商品id'**,  
 **`name` varchar**(50) **NOT NULL COMMENT '商品的名称'**,  
 **`description` varchar**(1000) **NOT NULL COMMENT '商品描述'**,  
 **`key\_word` varchar**(1000) **NOT NULL COMMENT '商品的关键字'**,  
 **`price` decimal**(20,2) **NOT NULL COMMENT '商品的价格'**,  
 **`counts` int NOT NULL COMMENT '商品的数量'**,  
 **`good\_image` VARCHAR**(255) **COMMENT '商品的图片地址'**,  
 **`type` int NOT NULL COMMENT '商品的分类'**,  
 **primary key** (**good\_id**)  
)**ENGINE**=INNODB **DEFAULT CHARSET**=utf8 **COMMENT**=**'商品表'**;  
  
**'购物车表'  
CREATE TABLE** shopping\_cart(  
 **`user\_id` int**(10) **unsigned zerofill NOT NULL COMMENT '用户id'**,  
 **`good\_id` int**(10) **unsigned zerofill NOT NULL COMMENT '商品id'**,  
 **`good\_price` decimal**(20,2) **NOT NULL COMMENT '商品价格'**,  
 **`counts` int NOT NULL COMMENT '商品的数量'**,  
 **primary key** (**user\_id**, **good\_id**),  
 **foreign key** (**user\_id**) **references user**(**user\_id**)  
)**ENGINE**=INNODB **DEFAULT CHARSET**=utf8 **COMMENT**=**'购物车表'**;  
  
**'订单表'  
CREATE TABLE** shopping\_order(  
 **`order\_id` int**(10) **unsigned zerofill AUTO\_INCREMENT COMMENT '订单id'**,  
 **`order\_number` varchar**(32) **NOT NULL COMMENT '订单号'**,  
 **`user\_id` int**(10) **unsigned zerofill NOT NULL COMMENT '用户id'**,  
 **`good\_id` int**(10) **unsigned zerofill NOT NULL COMMENT '商品id'**,  
 **`create\_time` timestamp not null COMMENT '订单提交时间'**,  
 **`finish\_time` timestamp COMMENT '订单完成时间'**,  
 **`order\_state` int not null COMMENT '订单状态'**,  
 **`good\_price` decimal**(20,2) **not null COMMENT '商品价格'**,  
 **`counts` int not null COMMENT '商品数量'**,  
 **`total\_price` decimal**(20,2) **not null COMMENT '订单总价格'**,  
 **`order\_address` VARCHAR**(50) **not NULL COMMENT '订单地址'**,  
 **`receive\_name` VARCHAR**(10) **NOT NULL COMMENT '收货人姓名'**,  
 **`phone` VARCHAR**(11) **NOT NULL COMMENT '收货人手机号'**,  
 **primary key** (**order\_id**),  
 **key**(**user\_id**),  
 **foreign key** (**user\_id**) **references user**(**user\_id**)  
)**ENGINE**=INNODB **DEFAULT CHARSET**=utf8 **COMMENT**=**'订单表'**;  
  
**'订单商品详情表'  
create table** order\_detail(  
 **`order\_detail\_id` int**(10) **unsigned zerofill AUTO\_INCREMENT COMMENT '订单id'**,  
 **`order\_id` int**(10) **unsigned zerofill COMMENT '订单id'**,  
 **`good\_id` int**(10) **unsigned zerofill NOT NULL COMMENT '商品id'**,  
 **`good\_name` varchar**(50) **NOT NULL COMMENT '商品的名称'**,  
 **`good\_price` decimal**(20,2) **NOT NULL COMMENT '商品的价格'**,  
 **primary key** (**order\_detail\_id**),  
 **key**(order\_number)  
)**ENGINE**=INNODB **DEFAULT CHARSET**=utf8 **COMMENT**=**'订单商品详情表'**;