网上书店数据库设计报告

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目录：

表格介绍

在本地 MySQL 数据库中我设计了管理员 Administrator、用户 User、订单 Order、图书 Book，User 的细则存在 MongoDB 中。

Administrator（aid，aname，apassword）

User（uid，uanme，upassword）

Order（oid，uid，bid，amount，date）

Book（bid，bname，author，category，price，stock）

Function & Procedure & Trigger

2.1 Trigger：一旦订单提交便触发使得图书库存减少订单购买数量

```
create trigger update_stock after insert on Order
begin
update book set stock= stock - new.amount where bid = new.bid
end
```

2.2 Procedure:按书号查找相应的图书

```
create procedure f_bookbyid (
@bid  int(11)
@bname varchar(50)
@bauthor varchar(50)
@bcate varchar(50)
@bprice varchar(50)
@bquantity varchar(50)
as
    select
```

```
@bid=BookID,@bname=BookName,@bauthor=Author,@bcate=Category
@bprice=Price,@bquantity=Quantity from book where BookID=@bid

)
```

2.3 procedure:返回两个日期间的订单

```
Delimiter $$
Create procedure re_order_bet_two_date (in begin Date, in end Date,
out oid int, out bid int)
Begin
Select OrderID from Order where Order.Date between begin and end into
oid;
Select BookID form Order where Order.Date between begin and end into
bid;
End
$$
```

2.4 function:返回对应书号销售量的函数

```
delimiter $$
create function sumorder(sum_id int)
return integer
begin
declare d_sum integer
    select sum(BookID) into d_sum
    from Order
    where Order.BookID = sum_id
    return d_sum
end
$$
```