

# CREATION

```
create database bookstore;  
use bookstore; drop  
database bookstore;
```

```
Create table Books(  
Book_id varchar(10) primary key,  
Title varchar(150) not null,  
Author varchar (30),  
Price numeric(6,2) not null,  
Quantity int(4));
```

```
Create table Books_bought(  
Cust_id varchar(10),  
Book_id varchar(10),  
Quantity int(3),  
Pricee numeric(8,2));  
Alter table Books_bought add Foreign key (Cust_id) references Customer (Cust_id) on delete  
cascade;
```

```
Create table Book_billing(  
Bill_id int auto_increment primary key,  
Bill_date date,  
Cust_id varchar(10),  
Total_Quantity int(10)  
Total_price numeric(8,2));  
Alter table Book_billing add Foreign key (Cust_id) references Customer (Cust_id) on delete  
cascade;
```

```
Create table Customer(  
Cust_id varchar(10) primary key,  
Cust_Name varchar(30) not null,  
Phone bigint(20) ,  
Email varchar(30) ,  
Address varchar(30));
```

```
Create table Publisher(  
Publisher_id int(5) primary key,  
Pub_Name varchar(30) not null,  
Address varchar(30),  
Phone bigint(20));
```

```
Create table published_by(  
Publisher_id int(5),  
Book_id varchar(10) primary key);
```

Alter table published\_by add Foreign key (Publisher\_id) references Publisher (Publisher\_id) on delete cascade;  
Alter table published\_by add Foreign key (Book\_id) references Books (Book\_id) on delete cascade;

## **INSERTIONS**

### **BOOK TABLE**

insert into Books values ('BK01','Harry Potter and the Half-Blood Prince (Harry Potter #6)', 'J.K. Rowling', '299', 15);

insert into Books values ('BK02','Harry Potter and the Order of the Phoenix (Harry Potter #5)', 'J.K. Rowling', '299', 17);

insert into Books values ('BK03','Harry Potter and the Chamber of Secrets (Harry Potter #2)', 'J.K. Rowling', '299', 16);

insert into Books values ('BK04','Harry Potter and the Prisoner of Azkaban (Harry Potter #3)', 'J.K. Rowling', '299', 18);

insert into Books values ('BK05','Harry Potter Boxed Set Books 1-5 (Harry Potter #1-5)', 'J.K. Rowling', '1199', 20);

insert into Books values ('BK06','Unauthorized Harry Potter Book Seven News: "Half-Blood Prince" Analysis and Speculation', 'W. Frederick Zimmerman', '349', 15); insert into Books values ('BK07','Harry Potter Collection (Harry Potter #1-6)', 'J.K. Rowling', '1499', 17);

insert into Books values ('BK08','The Ultimate Hitchhiker Guide: Five Complete Novels and One Story (Hitchhiker Guide to the Galaxy #1-5)', 'Douglas Adams', '1499', 27);

insert into Books values ('BK09','The Ultimate Hitchhiker\'s Guide to the Galaxy (Hitchhiker\'s Guide to the Galaxy #1-5)', 'Douglas Adams', '1299', 20);

insert into Books values ('BK10','The Hitchhiker\'s Guide to the Galaxy (Hitchhiker\'s Guide to the Galaxy #1)', 'Douglas Adams', '299', 18);

insert into Books values ('BK11','The Ultimate Hitchhiker\'s Guide (Hitchhiker\'s Guide to the Galaxy #1-5)', 'Douglas Adams', '1299', 25);

insert into Books values ('BK12','A Short History of Nearly Everything', 'Bill Bryson', '599', 20);

insert into Books values ('BK13','Bill Bryson\'s African Diary', 'Bill Bryson', '499', 22);

insert into Books values ('BK14','Bryson\'s Dictionary of Troublesome Words: A Writer\'s Guide to Getting It Right', 'Bill Bryson', '449', 23);

insert into Books values ('BK15','In a Sunburned Country', 'Bill Bryson', '349', 15);

insert into Books values ('BK16','I\'m a Stranger Here Myself: Notes on Returning to America After Twenty Years Away', 'Bill Bryson', '299', 17);

insert into Books values ('BK17','The Lost Continent: Travels in Small Town America', 'Bill Bryson', '299', 19);

insert into Books values ('BK18','Neither Here nor There: Travels in Europe','Bill Bryson','399',19);  
insert into Books values ('BK19','The Mother Tongue: English and How It Got That Way','Bill Bryson','299',23);  
insert into Books values ('BK20','J.R.R. Tolkien 4-Book Boxed Set: The Hobbit and The Lord of the Rings','J.R.R. Tolkien','1699',28);

insert into Books values ('BK21','The Lord of the Rings (The Lord of the Rings #1-3)','J.R.R. Tolkien','1299',15); insert into Books values ('BK22','The Fellowship of the Ring (The Lord of the Rings #1)','J.R.R. Tolkien/Alan Lee','499',17);

insert into Books values ('BK23','The Lord of the Rings (The Lord of the Rings #1-3)','J.R.R. Tolkien','999',17);  
insert into Books values ('BK24','Agile Web Development with Rails: A Pragmatic Guide','Dave Thomas','999',24);

insert into Books values ('BK25','Hatchet (Brian's Saga #1)','Gary Paulsen','399',22);  
insert into Books values ('BK26','Hatchet: A Guide for Using "Hatchet" in the Classroom','Donna Ickes','499',21);

insert into Books values ('BK27','Guts: The True Stories behind Hatchet and the Brian Books','Gary Paulsen','599',25);  
insert into Books values ('BK28','Molly Hatchet - 5 of the Best','Molly Hatchet','699',15);

insert into Books values ('BK29','Hatchet Jobs: Writings on Contemporary Fiction','Dale Peck','499',19);  
insert into Books values ('BK30','The Known World','Edward P. Jones','399',18);

insert into Books values ('BK31','Traders Guns & Money: Knowns and Unknowns in the Dazzling World of Derivatives','Satyajit Das','349',27);  
insert into Books values ('BK32','Artesia: Adventures in the Known World','Mark Smylie','449',17);

insert into Books values ('BK33','Uncommon Carriers','John McPhee','399',16); insert into Books values ('BK34','Heirs of General Practice','John McPhee','599',20);

insert into Books values ('BK35','The Control of Nature','John McPhee','349',23);  
insert into Books values ('BK36','Fullmetal Alchemist Vol. 10','Hiromu Arakawa','699',16);

insert into Books values ('BK37','Fullmetal Alchemist Vol. 5 (Fullmetal Alchemist #5)','Hiromu Arakawa/Akira Watanabe','599',18);  
insert into Books values ('BK38','Notes from a Small Island','Bill Bryson','299',24);

## PUBLISHER TABLE

Insert into Publisher values ( 1001, 'Scholastic Inc', 'Bangalore', 9484845487);  
Insert into Publisher values ( 1002, 'Nimble Books', 'Hyderabad', 9484845400);  
Insert into Publisher values ( 1003, 'Gramercy Books', 'Kolkata', 9484845411);  
Insert into Publisher values ( 1004, 'DelRey Books', 'Chennai', 9484845227);

Insert into Publisher values ( 1005, 'Crown', 'Bangalore', 9484844487);  
Insert into Publisher values ( 1006, 'Wings Books', 'Hyderabad', 9484995487);  
Insert into Publisher values ( 1007, 'Broadway Books', 'Chennai', 9484847787);  
Insert into Publisher values ( 1008, 'William Morrow Paperbacks', 'Kolkata', 9484845997);  
Insert into Publisher values ( 1009, 'Ballantine Books' , 'Delhi', 9484845411);  
Insert into Publisher values ( 1010, 'Houghton Mifflin Harcourt', 'Mumbai', 9484855487); Insert  
into Publisher values ( 1011, 'Pragmatic Bookshelf', 'Hyderabad', 9486645487);

## PUBLISHED\_BY

insert into published\_by values( 1001,'BK01'); insert  
into published\_by values( 1001,'BK02'); insert into  
published\_by values( 1001,'BK03'); insert into  
published\_by values( 1001,'BK04'); insert into  
published\_by values( 1001,'BK05'); insert into  
published\_by values( 1001,'BK06'); insert into  
published\_by values( 1002,'BK07'); insert into  
published\_by values( 1002,'BK08'); insert into  
published\_by values( 1002,'BK09'); insert into  
published\_by values( 1003,'BK10'); insert into  
published\_by values( 1003,'BK11'); insert into  
published\_by values( 1003,'BK12'); insert into  
published\_by values( 1003,'BK13'); insert into  
published\_by values( 1004,'BK14'); insert into  
published\_by values( 1004,'BK15'); insert into  
published\_by values( 1005,'BK16'); insert into  
published\_by values( 1005,'BK17'); insert into  
published\_by values( 1005,'BK18'); insert into  
published\_by values( 1005,'BK19'); insert into  
published\_by values( 1006,'BK20'); insert into  
published\_by values( 1006,'BK21'); insert into  
published\_by values( 1006,'BK22'); insert into  
published\_by values( 1007,'BK23'); insert into  
published\_by values( 1007,'BK24'); insert into  
published\_by values( 1007,'BK25'); insert into  
published\_by values( 1007,'BK26'); insert into  
published\_by values( 1008,'BK27'); insert into  
published\_by values( 1008,'BK28'); insert into  
published\_by values( 1008,'BK29'); insert into  
published\_by values( 1009,'BK30'); insert into  
published\_by values( 1010,'BK31'); insert into  
published\_by values( 1010,'BK32'); insert into  
published\_by values( 1010,'BK33'); insert into  
published\_by values( 1010,'BK34'); insert into  
published\_by values( 1011,'BK35'); insert into  
published\_by values( 1011,'BK36'); insert into  
published\_by values( 1011,'BK37'); insert into  
published\_by values( 1011,'BK38');

# STORED PROCEDURES

## 1. generate\_bill

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `generate_bill`(IN custid varchar(10) , IN bookid varchar(10) , IN booksbought int(4)) BEGIN
declare totprice numeric(8,2) default 0; declare
bookprice numeric(8,2) default 0;
set bookprice = (select price from Books where Book_id = bookid); set
totprice = bookprice * booksbought;
update Books set Quantity = Quantity - booksbought where Book_id = bookid; insert
into Books_bought(Cust_id , Book_id , Quantity , Pricee) values ( custid , bookid ,
booksbought , totprice);
select * from Books_bought;
END
```

## 2. GRAND BILL

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `GRAND_BILL`(IN custtidd varchar(10))
BEGIN
declare z numeric(8,2) default 0;
declare billdate date ; declare x
numeric(8,2) default 0;
select sum(Quantity) into x from Books_bought where Cust_id = custtidd;
set billdate = curdate(); set z = GENERATE_BILL2(custtidd);
insert into Book_billing(Bill_date , Cust_id ,Total_Quantity,Total_price) values (billdate , custtidd
,x, z);
select * from Book_billing;
END
```

# FUNCTIONS

## 1. GENERATE BILL2

```
CREATE DEFINER=`root`@`localhost` FUNCTION `GENERATE_BILL2`(custidd varchar(10))  
RETURNS decimal(10,0)  
DETERMINISTIC BEGIN  
declare x numeric(8,2) default 0;  
select sum(Pricee) into x from Books_bought where Cust_id = custidd;  
RETURN x;  
END
```

## TRIGGERS(ON BOOK TABLE)

```
CREATE DEFINER=`root`@`localhost` TRIGGER before_update_books BEFORE  
UPDATE ON Books FOR EACH ROW BEGIN  
if new.Quantity < 7 then set new.Quantity = new.Quantity + 20; end  
if;  
END
```

## VIEWS

```
create view finalbill as select Cust_name , Cust_id , Bill_id , Bill_date , Total_Quantity ,  
Total_price from Book_billing natural join Customer;
```