Online_books_store

Friday, June 20, 2025 3:04 PM

```
create database online_book_store;
use online_book_store;

create table Books(
 Book_ID int primary key,
 Title varchar(100),
 Author varchar(100),
 Genre varchar(100),
 Published_Year    int,
 Price numeric (10,2),
 Stock int);

select * from Books;
desc  Books;


create table Customers(
Customer_ID int primary key,
       Name varchar(20),
       Email varchar(100),
       Phone  varchar(100),
       City varchar(100),
       Country varchar(100));

select * from Customers;
desc  customers;


CREATE TABLE Orders (
    Order_ID INT PRIMARY KEY,
    Customer_ID INT,
    Book_ID INT,
    Order_Date DATE,
    Quantity INT,
```

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    Total_Amount INT,
    FOREIGN KEY (Customer_ID) REFERENCES Customers(Customer_ID),
    FOREIGN KEY (Book_ID) REFERENCES Books(Book_ID)
);

select * from orders;
desc  orders;


select * from books;
select * from customers;
select * from orders;



-- 1 > retrieve all books in the fiction genre --
select *from books where genre ="fiction";

-- 2 > find books published after year 1950 --
select * from books where published_year >1950;

-- 3 > list all customers from canada --
select * from customers where country = "canada";

-- 4 > show orders placed in november 2320 --
select * from orders where  order_date between
"2023-11-01" and "2023-11-30";

-- 5 > retrieve total stock of books available --
select sum(stock)  as total_stock from books;

-- 6 > find details of most expensive books --
select * from books order by price desc limit 1;
select * from books where price = (select  max(price) as expensive  from
books)  ;

-- 7 >show all customers who orders more than one quantity of books --
select * from orders where quantity >1;
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-- 8 > retrieve all orders where the total amount exceeds $20 --
select * from orders where total_amount >20;

-- 9 > list all genre available in the books table --
select count( genre) from books;
select  count(distinct genre) from books;

-- 10 > find the books with the lowest stock --
select * from books  order by stock   limit 1;
select * from books  order by stock   ;
select min(stock) from books;


-- 11 > calculate total revenue generated by all orders --
select sum(total_amount) as total_renvenue from orders;




-- >advance question --

-- 1 > find the average price of books in fantasy genre --
select avg(price) as average_price from books where genre ="fantasy";


select * from orders;
select * from customers;

-- 2 > list customers who has placed at least two orders --
select  customer_id,count(order_id) from orders group by customer_id
having  count(order_id)>=2 ;



select c.name,o.customer_id ,count(o.order_id) as order_count
 from
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 orders o  join customers c
 on
  o.customer_id = c.customer_id
  group by o.customer_id ,c.name
  having count(order_id)>=2;



  select * from books;
  select * from orders;
-- 3 >retrieve the total no of books sold for each genre --
select b.genre ,sum(o.quantity)from
 orders o  join books b
on
b.book_id =o.book_id
group by b.genre;


-- 4 > find the most frequently order book --
select book_id ,count(order_id) as total_order from orders
group by book_id
order by total_order desc limit 1;


select o.book_id,b.title ,count(o.order_id) as total_order from
orders o join books b
on
o.book_id =b.book_id
group by o.book_id,b.title
order by total_order desc limit 1;

-- 5 > show the top 3 most expensive books of fantasy genre --
select * from books where genre ="fantasy" order by price  desc limit 3;
```

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