create database books\_library;

select \* from books;

select \* from customers;

select \* from orders;

# 1)Retrive all books in the "Fiction" genre ?

select \* from books

where genre = "Fiction";

#2)Find books published after the year 1950 ?

select \* from books

where Published\_Year >1950 ;

#3) List all customers from the canada ?

select \* from customers

where country = "canada";

#4) Show orders placed in November 2023 ?

select \* from orders

where order\_date BETWEEN "2023-11-01" AND "2023-11-30";

#5) Retrieve the total stock of books available ?

select sum(stock) as Total\_Stocks from books;

#6) Find the details of the most expensive book?

select \* from books

order by price desc limit 1;

#7) Show all customers who ordered more than 1 quantity of a book ?

select \* from orders

where quantity > 1;

#8) Retrieve all orders where the total amount exceeds $20 ?

select \* from orders

where Total\_amount > 20;

#9) List all geners available in the books table ?

select distinct(genre) from books;

#10) Find the books with the lowest stock;

select \* from books

order by stock asc limit 1 ;

#11) Calculate the total revenue generated from all orders ?

select sum(total\_amount) as total\_revenue from orders;

#12) Retrieve the total numbers of books sold for each genre ?

SELECT \* FROM ORDERS;

SELECT b.Genre, SUM(o.Quantity) AS Total\_Books\_sold

FROM Orders o

JOIN Books b ON o.book\_id = b.book\_id

GROUP BY b.Genre;

#13) Find the average price of books in the "Fantasy" Genre ?

select avg(price) as average\_price from books

where genre = "Fantasy" ;

#14) Find the most frequently ordered book ?

select o.book\_id ,b.title,count(o.order\_id) as order\_count from orders as o

join books as b on o.book\_id = b.book\_id

group by o.book\_id,b.title

order by order\_count desc limit 1;

#15)List customers who have placed at least 2 orders ?

select customer\_id,count(order\_id) from orders

group by customer\_id

having count(order\_id) >= 2;

#16) Show the top 3 most expensive books of"Fantasy" Genre ?

select \* from books

where genre = "Fantasy"

order by price desc limit 3 ;

#17) Retrieve the total quantity of books sold by each author ?

select b.author,sum(o.quantity) as total\_books\_sold from orders as o

join books as b on o.book\_id =b.book\_id

group by b.author;

#18) List The cities where customers who spent over 30 are located ?

select distinct(c.city),o.total\_amount from orders as o

join customers as c on c.customer\_id = o.customer\_id

where o.total\_amount > 30;

#19) Find the Customer who spent the most on orders ?

select c.customer\_id,c.name,sum(o.total\_amount) as total\_spent from customers as c

join orders as o on c.customer\_id = o.customer\_id

group by c.customer\_id ,c.name

order by total\_spent desc ;