

SQL QUERIES :

use bookstore2020new;

-- QUERY 1 :

```
SELECT *  
FROM book  
where title =?;
```

-- QUERY 2 :

```
SELECT first_name,min(date)  
FROM customer;
```

-- QUERY 3 :

```
SELECT title,min(date)  
FROM book;
```

-- QUERY 4 :

```
SELECT orders.orderID,  
       orders.orderdate,  
       orders.shipped_date,  
       orders.payment_total,  
       orders.payment_date,  
       shippers.name as shipper_name,  
       orders.OrderStatus  
FROM orders  
inner join shippers  
on orders.shippers_shipper_id=shippers.shipper_id  
ORDER BY orders.orderdate DESC;
```

-- QUERY 5 :

```
SELECT SUM(bb.quantity) AS quantity  
FROM (((transaction t  
INNER JOIN orders aa  
ON aa.OrderID =t.orders_orderID)  
INNER JOIN order_books bb  
ON bb.orders_orderID = aa.orderID)  
INNER JOIN book b  
ON b.book_id = bb.book_book_id)  
WHERE b.title = ?;
```

-- QUERY 6 :

```
select author.name
from book
inner join order_books
on book.book_ID = order_books.book_book_ID
inner join orders
on order_books.orders_orderID=orders.orderID
inner join author_has_book
on author_has_book.book_book_ID= book.book_ID
inner join author
on author_has_book.author_author_id= author.author_id
inner join transaction
on orders.orderID = transaction.orders_orderID
WHERE orders.orderdate >= ? or orders.orderdate <= ?
GROUP BY author_has_book.author_author_id
HAVING COUNT(author_has_book.author_author_id) > 1
order by COUNT(author_has_book.author_author_id)
desc limit 1;
```

-- QUERY 7 :

```
SELECT customer.first_name,
sum(transaction.purchased_books) as total_books
FROM customer
INNER JOIN transaction
ON customer.customer_id = transaction.customer_customer_id
group by transaction.customer_customer_id
order by total_books
desc limit 3;
```

-- QUERY 8 :

```
select book.title as book_title_with_the_most_translators
from book
inner join translator_has_book
on book.book_ID=translator_has_book.book_book_ID
inner join translator
on translator_has_book.translator_translator_id= translator.translator_id
where book.quantity_in_stock>0
limit 1;
```

-- QUERY 9 :

```
select customer.first_name,  
transaction.date,  
book.title,  
order_books.unit_price,payment_method.name as payment_method_name  
from book  
inner join order_books  
on book.book_ID= order_books.book_book_ID  
inner join orders  
on order_books.orders_orderID= orders.orderID  
inner join transaction  
ON orders.orderID = transaction.orders_orderID  
inner join customer  
on transaction.customer_customer_id=customer.customer_id  
inner join payment_method  
on transaction.payment_method_payment_method_id =  
payment_method.payment_method_id  
where customer.first_name = ?;
```

-- QUERY 10 :

```
select book.title,  
order_books.unit_price,  
orders.orderdate,  
orders.OrderStatus  
from book  
inner join order_books  
on book.book_ID=order_books.book_book_ID  
inner join orders  
on order_books.orders_orderID= orders.orderID  
inner join transaction  
on orders.orderID = transaction.orders_orderID  
inner join customer  
on transaction.customer_customer_id = customer.customer_id  
WHERE customer.first_name = ? and customer.last_name = ?  
ORDER BY orderdate  
desc ;
```

-- QUERY 11 :

```
select orderID,  
(order_books.quantity* shipping_method.price* book.weight) as price  
from orders  
inner join shippers  
on shippers.shipper_id= orders.shippers_shipper_id  
inner join shipping_method  
on shipping_method.shipping_method_id= shippers.shipping_method_shipping_method_id  
inner join order_books  
on order_books.orders_orderID= orders.orderID  
inner join book  
on book.book_ID= order_books.book_book_ID  
where orders.orderID=?;
```

-- QUERY 12 :

```
select c.first_name,  
c.last_name,  
b.title,  
ob.quantity,  
tran.orders_orderID,  
o.orderdate  
from book b  
inner join order_books ob  
on b.book_ID = ob.book_book_ID  
inner join orders o  
on ob.orders_orderID = o.orderID  
inner join transaction tran  
on o.orderID =tran.orders_orderID  
inner join customer c  
on tran.customer_customer_id = c.customer_id  
where c.customer_id=?;
```

-- QUERY 13:

```
SELECT OrderStatus  
FROM orders  
WHERE OrderID=?;
```

-- QUERY 14 :

```
SELECT COUNT(OrderID) as count_of_orders_shipped_by_xpress  
FROM orders  
WHERE shippers_shipper_id=4 OR shippers_shipper_id=5;
```

-- QUERY 15 :

```
SELECT SUM(total_payment) AS total
from transaction
where payment_method_payment_method_id=?;
```

-- QUERY 16:

```
SELECT extract(month FROM date) month,
count(*) id,
SUM(total_payment) income,
sum(sp.total_payment_store) outcome,
sum(total_payment - sp.total_payment_store) Profit,
avg(total_payment - sp.total_payment_store) avg_profit
FROM transaction
inner join store_payment sp
WHERE date BETWEEN ? AND ?
GROUP BY extract(month FROM date)
order by sum(total_payment - sp.total_payment_store)
desc;
```

-- QUERY 17 :

```
SELECT sum(orders.shippers_shipper_id =3 ) + sum(orders.shippers_shipper_id=2) as
expressPost ,
sum(orders.shippers_shipper_id =1) + sum(orders.shippers_shipper_id=4) +
sum(orders.shippers_shipper_id=5) as IsraelPost
FROM orders
inner join shippers
on shippers.shipper_id = orders.shippers_shipper_id and orderdate >= ?;
```

-- QUERY 18:

```
select b.book_ID,  
       o.orderID,  
       o.orderdate,  
       o.OrderStatus,  
       o.comments,  
       o.shipped_date,  
       o.payment_date,  
       o.payment_total,  
       p.name,  
       p.publish_year,  
       COUNT(b.book_id) as book_Edition  
from book b  
inner join order_books ob  
on b.book_ID= ob.book_book_ID  
inner join orders o  
on ob.orders_orderID= o.orderID  
inner join publisher_has_book pb  
on b.book_ID= pb.book_book_ID  
inner join publisher p  
on pb.publisher_publisher_id= p.publisher_id  
group by b.book_ID  
HAVING COUNT(b.book_ID) > 1;
```

-- QUERY 19:

```
SELECT customer.customer_id,  
       customer.first_name,  
       customer.landphone,  
       customer.date,  
       customer.phonenumber,  
       customer.address,  
       customer.last_name  
FROM customer  
INNER JOIN transaction  
ON customer.customer_id = transaction.customer_customer_id  
where transaction.date <= ?;
```

-- QUERY 20:

```
select customer.first_name
from orders
inner join transaction
on orders.orderID = transaction.orders_orderID
inner join customer
on transaction.customer_customer_id = customer.customer_id
where orders.orderdate < orders.shipped_date;
```

-- QUERY 21:

```
select month(date) as Month ,
count(*) as booksPerMonth
from book
WHERE
year(date) = '2020'
group by month(date);
```

-- QUERY 22.1:

```
SELECT SUM(o.amount * b.bookprice) AS OrdersPrice
,count(o.amount) as NumberOfBooks
FROM booksupplierorder o
INNER JOIN book b
ON o.book_id = b.book_id
WHERE Order_Date <= ? AND Order_Date >= ?;
```

-- QUERY 22.2:

```
SELECT store_payment.month,
(transaction.total_payment -
    (booksupplierorder.total_payment
        +store_payment.phone_number
        +store_payment.land_line_number
        +store_payment.shipment
    +store_payment.tax
    +store_payment.water_tax
    +store_payment.electric_pwer_tax
    +store_payment.service_charge
    +store_payment.others
    -store_payment.workers_salary))
    as total
FROM store_payment
inner join transaction
on store_payment.transaction_id = transaction.id
inner join booksupplierorder
on store_payment.booksupplierorder_OrderID = booksupplierorder.OrderID
where store_payment.month = ?;
```

-- QUERY 23 :

```
SELECT extract(month FROM date) month,
count(*) id,
SUM(total_payment) income,
sum(total_payment) / count(distinct id) as AvgPerMonth
FROM transaction
WHERE date BETWEEN ? AND ?
GROUP BY extract(month FROM date);
```

-- QUERY24

```
SELECT first_name,
salary
FROM sales_man
where id=?;
```

-- QUERU 25:

```
SELECT sales_man.first_name
FROM transaction
inner join sales_man
on transaction.sales_man_id= sales_man.id
where date >= ? AND date <= ?
limit 1;
```


