

SQL Challenge-4

Challenge hosted on [Steeldata.org](https://steeldata.org)

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financial
analysis

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1. What are the names of all the customers who live in New York?

Syntax:

```
select concat_ws(' ',firstname,lastname)  
as customer_name  
from customers  
where city= 'New York';
```

Output:

```
customer_name  
John Doe  
Jane Doe
```

2. What is the total number of accounts in the Accounts table?

Syntax:

```
select count(accountid) as total_count  
from accounts;
```

Output:

```
total_count  
15
```

3. What is the total balance of all checking accounts?

Syntax:

```
select sum(balance) as Total_Balance  
from Accounts  
where accounttype = 'checking';
```

Output:

```
Total_Balance  
31000.00
```

4. What is the total balance of all accounts associated with customers who live in Los Angeles?

Syntax:

```
select sum(a.balance) as Total_Balance  
from Accounts as A inner join Customers as C  
on a.CustomerID=c.CustomerID  
where city='Los Angeles';
```

Output:

Total_Balance
75000.00

5. Which branch has the highest average account balance?

Syntax

```
select top 1 b.branchname ,  
       round(avg(a.balance),2) as AvgBalance  
from branches as b join accounts as a  
on b.branchid= a.BranchID  
group by b.branchname  
order by avgbalance desc;
```

Output:

branchname	AvgBalance
North Beach	30000.000000

6. Which customer has the highest current balance in their accounts?

Syntax

```
select top 1 c.firstname,c.lastname, max(a.balance)
as Maxbalance
from customers as c join accounts as a
on c.customerid = a.customerid
group by c.firstname,c.lastname
order by Maxbalance
desc;
```

Output:

firstna me	lastnam e	Maxbala nce
Michael	Lee	50000. 00

7. Which customer has made the most transactions in the Transactions table?

Syntax

```
select top 1 c.firstname,c.lastname, count(t.transactionid)
as Total_Transactions
from customers as c join accounts as a
on c.CustomerID= a.CustomerID
join Transactions AS t
on a.AccountID = t.AccountID
group by c.firstname,c.lastname
order by Total_Transactions desc;
```

Output:

firstname	lastnam e	Total_Transac tions
Jane	Doe	4

8.Which branch has the highest total balance across all of its accounts?

Syntax

```
select top 1 b.branchname, sum(a.balance)  
as Total_balance  
from accounts as a join branches as b  
on a.branchid=b.branchid  
group by branchname  
order by Total_balance desc;
```

Output:

branchname	Total_balance
North Beach	60000.00

9. Which customer has the highest total balance across all of their accounts, including savings and checking accounts?

Syntax

```
select TOP 1 c.firstname,c.lastname,sum(a.balance)
as High_balance
from customers as c join accounts as a
on c.CustomerID=A.CustomerID
WHERE ACCOUNTTYPE = 'SAVINGS'
GROUP BY firstname,lastname
ORDER BY High_balance DESC;
```

Output:

firstna me	lastnam e	High_ba lance
Michael	Lee	50000. 00

10. Which branch has the highest number of transactions in the Transactions table?

Syntax

Output:

```
SELECT top 1 B.BRANCHNAME, COUNT(T.TRANSACTIONID)  
AS high_trans  
from branches as b join ACCOUNTS AS A  
on B.BranchID=A.BranchID  
join Transactions AS T  
on A.AccountID=T.ACCOUNTID  
group by branchname  
order by high_trans desc;
```

BRANCHNAME	high_trans
Main	4

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