

# **Financial Analysis**

## **STEEL DATA CHALLENGE - 4**

**Orville Pagaduan**

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

# JohnDoe and JaneDoe lives in NY

```
-- 1. What are the names of all the customers who live in New York?  
SELECT CONCAT (FirstName, LastName) AS Customers, City, State  
FROM Customers c  
WHERE State = 'NY';
```

Customers 1 X

SELECT CONCAT (FirstName, LastName) AS Fullname FROM Customers WHERE Fullname LIKE 'John%'

Enter a SQL expression to filter results (use Ctrl+Enter to execute)

Customers	City	State
JohnDoe	New York	NY
JaneDoe	New York	NY

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

15

⊖

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

SELECT COUNT(AccountID)

FROM Accounts a;

Results 1 X

SELECT COUNT(AccountID) FROM

Enter a SQL expression to filter results (use Ctrl+Enter to execute)

	123 COUNT(AccountID)
1	15

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

31,000

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-- 3. What is the total balance of all checking accounts?  
**SELECT** AccountType, **SUM**(Balance)  
**FROM** Accounts a  
**WHERE** AccountType = 'Checking';

accounts 1

×

SELECT AccountType, SUM(Balan

⌵ ⌶ Enter a SQL expression to filter results (use Ctrl+S

	ABC AccountType	123 SUM(Balance)	
1	Checking	31,000	



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

75,000

```
-- 4. What is the total balance of all accounts associated with customers who live in Los Angeles?  
SELECT SUM(a.Balance)  
FROM Accounts a  
JOIN Customers c ON c.CustomerID = a.CustomerID  
WHERE City = 'Los Angeles'
```

Results 1 ×

SELECT SUM(a.Balance) FROM Accounts a

	123 SUM(a.Balance)
1	75,000

# North Beach

branches 1   SELECT AVG(a.Balance) AS 'Avera'  Enter a SQL expression to filter results (use Ctrl-

	123 Average Balance	ABC BranchName	
1	30,000	North Beach	
2	12,500	South Bay	
3	7,100	Downtown	
4	3,833.333333	Main	
5	1,833.333333	Uptown	

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

Michael Lee

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

SELECT CONCAT(FirstName, LastName) AS 'Customers', SUM(a.Balance) AS 'Total\_Balance'

FROM Customers c

JOIN Accounts a ON a.CustomerID = c.CustomerID

GROUP BY Customers

ORDER BY Total\_Balance DESC;

Results 1

SELECT CONCAT(FirstName, Last

Enter a SQL expression to filter results (use Ctrl+Space)

	ABC Customers	123 Total_Balance
1	MichaelLee	60,000
2	AliceJohnson	25,000
3	BobSmith	20,500
4	JenniferWang	15,000
5	JaneDoe	11,500
6	JohnDoe	5,500



# Jane Doe and Alice Johnson

# Jane Doe and Alice Johnson

```
-- 7. Which customer has made the most transactions in the Transactions table?
SELECT CONCAT(FirstName, ' ', LastName) AS 'Customers', COUNT(t.TransactionDate) AS 'No_of_Transactions'
FROM Customers c
JOIN Accounts a ON a.CustomerID = c.CustomerID
JOIN Transactions t ON t.AccountID = a.AccountID
GROUP BY Customers
ORDER BY No_of_Transactions DESC;
```

Results 1 ✕

SELECT CONCAT(FirstName, ' ', LastName) AS Fullname FROM Customers WHERE  Enter a SQL expression to filter results (use Ctrl+Space)

	🔒 ABC Customers ▼	123 No_of_Transactions ▼
1	Jane Doe	4
2	Alice Johnson	4
3	John Doe	3
4	Bob Smith	3
5	Michael Lee	1



# North Beach

branches 1 X

	ABC BranchName	123 Total_Balance
1	North Beach	60,000
2	Downtown	35,500
3	South Bay	25,000
4	Main	11,500
5	Uptown	5,500

# Michael Lee

Results 1 X

<div><div><div><div><div></div><div>🔒</div></div><div>ABC Customers</div><div></div></div></div><div>123 Total_Balance</div></div>		
1	Michael Lee	60,000
2	Alice Johnson	25,000
3	Bob Smith	20,500
4	Jennifer Wang	15,000
5	Jane Doe	11,500
6	John Doe	5,500



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

Main

```
-- 10. Which branch has the highest number of transactions in the Transactions table?  
SELECT COUNT(t.TransactionID) AS 'Total_Transactions', b.BranchName  
FROM Transactions t  
JOIN Accounts a ON a.AccountID =t.AccountID  
JOIN Branches b ON b.BranchID = a.BranchID  
GROUP BY b.BranchName  
ORDER BY Total_Transactions DESC;
```

branches 1 X

SELECT COUNT(t.TransactionID) / Enter a SQL expression to filter results (use Ctrl+Space)

	123 Total_Transactions	ABC BranchName
1	4	Main
2	4	South Bay
3	3	Uptown
4	3	Downtown
5	1	North Beach