DELTA TEAM

Adriana Rodriguez

Erik Hernandez

Somsak Bounchareune

Taib Elbaroudi

**WILLSON FINANCIAL**

**Report Description, Python Script, and Result of Query:**

**Report #1: Number of Clients Added Monthly**

**Description:**

This report is designed to give the company an idea of how many clients are added on a monthly basis, and more specifically to see how many have been added for each of the past 6 months.

**Python Script:**

# Report 1: Number of Clients Added Monthly

query\_1 = """

SELECT MONTH(JoinedDate) AS MONTH, COUNT(\*) AS NewClients

FROM Client

WHERE JoinedDate >= DATE\_SUB(CURDATE(), INTERVAL 6 MONTH)

GROUP BY MONTH(JoinedDate)

ORDER BY MONTH DESC;

"""

cursor.execute(query\_1)

result\_1 = cursor.fetchall()

print("Report 1: Number of Clients Added Monthly")

for row in result\_1:

print(row)

**Result of Query:**

A screen shot of a computer

Description automatically generated

**Report #2: Average Amount of Assets Per Client**

**Description:**

This report is designed to show the average amount of assets in (currency in U.S. dollars) per client, and more specifically for the entire client list.

**Python Script:**

# Report 2: Average Amount of Assets per Client

query\_2 = """

SELECT AVG(Asset.value) AS Average\_Asset\_Value

FROM Asset;

"""

cursor.execute(query\_2)

result\_2 = cursor.fetchone()

print("\nReport 2: Average Amount of Assets per Client")

print("Average Asset Value:", result\_2[0])

**Result of Query:**



**Report #3: High Transaction Frequency**

**Description:**

This report is designed to show the number of clients who have a high transaction frequency, specifically more than 10 transactions per month.

**Python Script:**

# Report 3: Clients with High Transaction Frequency

query\_3 = """

SELECT client\_id, COUNT(\*) AS TransactionsPerMonth

FROM Transaction

GROUP BY client\_id, YEAR(date), MONTH(date)

HAVING COUNT(\*) > 10;

"""

cursor.execute(query\_3)

result\_3 = cursor.fetchall()

print("\nReport 3: Clients with High Transaction Frequency")

for row in result\_3:

print(row)

# Close cursor and connection

cursor.close()

conn.close()

**Result of Query:**

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