# final\_fixed\_python\_project

May 8, 2025

# 1 Beija Richardson 5/8/2025

### 1.1 Step 1: Connect to Bank Database

```
[3]: username, password = get_credentials('./vault.txt')
print(f"Username: {username}, Password: {password}")
```

Username: Pat, Password: datasciencerules

```
print(" Connection established with the bank database!")
  connection.close()
else:
  print(" Failed to connect.")
```

Connection established with the bank database!

#### 1.2 Step 2: Retrieve Transactions for a Valid Month

```
[21]: from db_queries import get_transactions_for_month
    df_valid = get_transactions_for_month(connection, 2023, 5)
    print(df_valid)
```

```
Error: connection already closed transaction_id amount transaction_date 0 -1 -1 None
```

C:\Users\Luke\Documents\Class5002\Module\_6\python\_project\db\_queries.py:23: UserWarning: pandas only supports SQLAlchemy connectable (engine/connection) or database string URI or sqlite3 DBAPI2 connection. Other DBAPI2 objects are not tested. Please consider using SQLAlchemy.

df = pd.read\_sql\_query(query, connection)

# 1.3 Step 3: Retrieve Transactions for an Invalid Month

```
[15]: df_invalid = get_transactions_for_month(connection, 1900, 99)
print(df_invalid)
```

```
Error: connection already closed transaction_id amount transaction_date

0 -1 -1 None
```

C:\Users\Luke\Documents\Class5002\Module\_6\python\_project\db\_queries.py:23: UserWarning: pandas only supports SQLAlchemy connectable (engine/connection) or database string URI or sqlite3 DBAPI2 connection. Other DBAPI2 objects are not tested. Please consider using SQLAlchemy.

df = pd.read\_sql\_query(query, connection)

# 1.4 Step 4: Use DatabaseManager Class for Analysis

```
[19]: from db_manager import DatabaseManager
dbm = DatabaseManager("vault.txt")
print(dbm.fetch_transactions(2023, 5))
dbm.plot_transactions_by_day(2023, 5)
```

Error connecting to the database: connection to server at "localhost" (::1), port 5432 failed: FATAL: password authentication failed for user "Pat"

Error: 'NoneType' object has no attribute 'cursor'
transaction\_id amount transaction\_date

0 -1 -1 None

Error: 'NoneType' object has no attribute 'cursor'

No valid data available to plot.

[]: