```
In [2]: ) # Step 1: Import Required Libraries
import pandas as pd
import sqlite3

# Step 2: Load CSV File
df = pd.read_csv("product_sales.csv") # Replace with the actual filename
df.head()
```

Out[2]:

	AgentID	CallID	CustomerID	PickedUp	Duration	ProductSold	Agent_Name
0	0	7999	519	1	117	0	Michele Williams
1	0	7100	469	1	235	0	Michele Williams
2	0	3752	74	1	185	0	Michele Williams
3	0	3751	562	1	121	0	Michele Williams
4	0	6783	30	1	102	1	Michele Williams

```
In [3]:  # Step 3: Create SQLite Database and Table
    conn = sqlite3.connect("product_sales.db")
    df.to_sql("Product_Sales", conn, if_exists="replace", index=False)

# Confirm table Loaded
    pd.read_sql("SELECT * FROM Product_Sales LIMIT 5", conn)
```

Out[3]:

	AgentID	CallID	CustomerID	PickedUp	Duration	ProductSold	Agent_Name
0	0	7999	519	1	117	0	Michele Williams
1	0	7100	469	1	235	0	Michele Williams
2	0	3752	74	1	185	0	Michele Williams
3	0	3751	562	1	121	0	Michele Williams
4	0	6783	30	1	102	1	Michele Williams

Out[5]:

	Agent_Name	TotalSales
0	Gloria Singh	209
1	Todd Morrow	204
2	Lisa Cordova	201
3	Michele Williams	198
4	Paul Nunez	194
5	Agent X	194

```
Out[6]:

AgentID CallID CustomerID PickedUp Duration ProductSold Agent_Name
           0 0 680 837 0 0 0 Michele Williams
            1 0 5331
                         10
                                0 0
                                             0 Michele Williams
           2 0 2768 779 0 0 0 Michele Williams
             3 0 7149 897 0 0
                                           0 Michele Williams
           4 0 450 275 0 0 0 Michele Williams
# 4. Top 10 Customers with Highest Call Duration
pd.read_sql("""
  SELECT CustomerID, SUM(Duration) AS TotalDuration
   FROM Product_Sales
   GROUP BY CustomerID
   ORDER BY TotalDuration DESC
   LIMIT 10
""", conn)
```

CustomerID TotalDuration 0 604 3290 1 769 2907 2 953 2792

3 10 2773 4 519 2748

```
# 5. Create a View (Optional - for saving within DB)
conn.execute("""
    CREATE VIEW IF NOT EXISTS AgentSalesSummary AS
    SELECT Agent_Name, COUNT(*) AS TotalCalls, SUM(ProductSold) AS TotalProducts
    FROM Product_Sales
    GROUP BY Agent_Name
""")
# Check view
pd.read_sql("SELECT * FROM AgentSalesSummary", conn)
```

	Agent_Name	TotalCalls	TotalProducts
0	Agent X	921	194
1	Angel Briggs	881	157
2	Christopher Moreno	910	189
3	Dana Hardy	847	182