In [1]:
```
import sqlite3
conn = sqlite3.connect('sales_data.db')
cursor = conn.cursor()

#creating table
cursor.execute('''
    CREATE TABLE IF NOT EXISTS sales (
        id INTEGER PRIMARY KEY AUTOINCREMENT,
        product TEXT NOT NULL,
        quantity INTEGER NOT NULL,
        price REAL NOT NULL
    )
''')

conn.commit()
conn.close()
```

In [3]:
```
import sqlite3
conn = sqlite3.connect('sales_data.db')
cursor = conn.cursor()

sales_data = [
    ('Product A', 5, 100),
    ('Product B', 3, 200),
    ('Product C', 8, 150),
    ('Product A', 2, 100),
    ('Product B', 4, 200),
]

cursor.executemany('INSERT INTO sales (product, quantity, price) VALUES (?, ?, ?)',

conn.commit()
conn.close()
```

In [5]:
```
import sqlite3
import pandas as pd
conn = sqlite3.connect('sales_data.db')

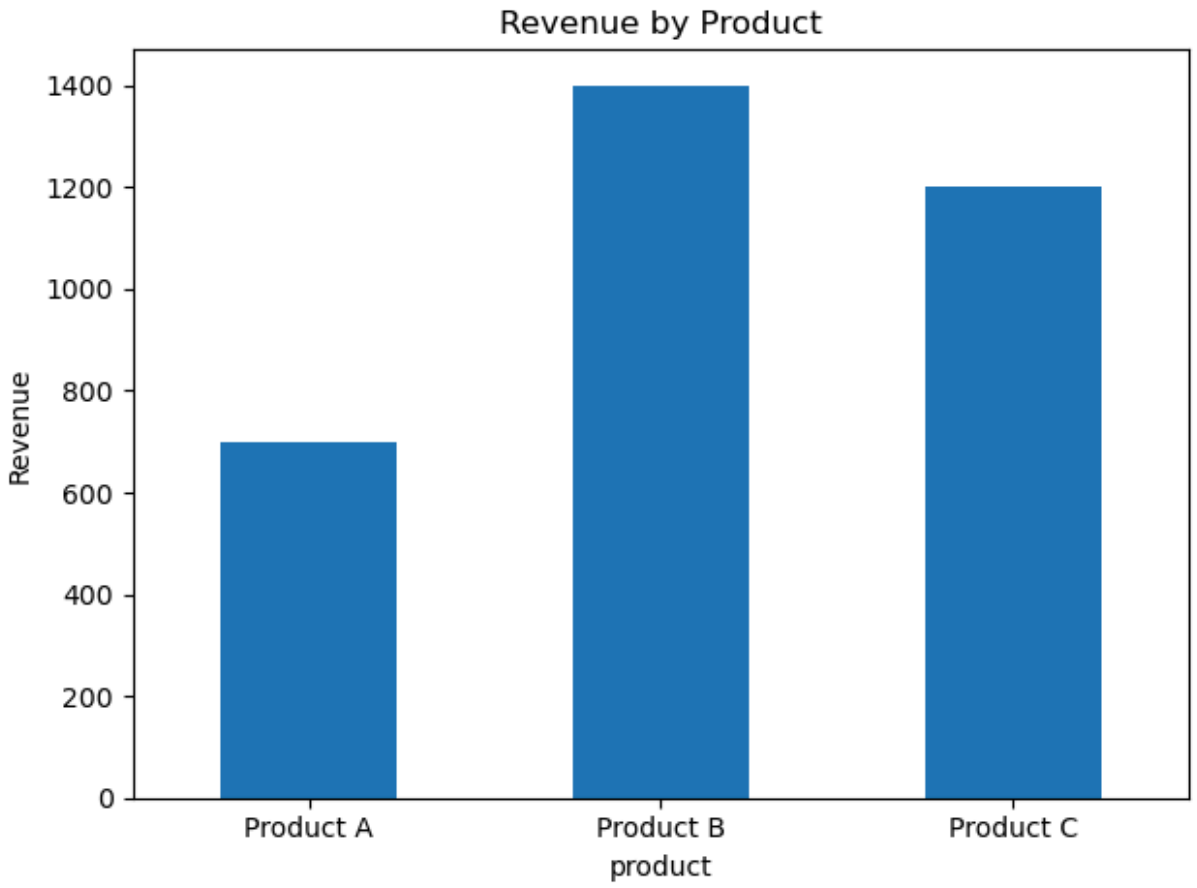
#SQL query to get total quantity and revenue per product
query = '''
    SELECT product,
           SUM(quantity) AS total_qty,
           SUM(quantity * price) AS revenue
    FROM sales
    GROUP BY product
'''
df = pd.read_sql_query(query, conn)

conn.close()
print(df)
```

```
     product  total_qty  revenue
0  Product A          7    700.0
1  Product B          7   1400.0
2  Product C          8   1200.0
```

In [13]:
```
import matplotlib.pyplot as plt

# Plotting a bar chart for revenue by product
df.plot(kind='bar', x='product', y='revenue', legend=False)
plt.ylabel('Revenue')
plt.title('Revenue by Product')
plt.xticks(rotation=0)
plt.tight_layout()
plt.show()
plt.savefig('sales_chart.png')
```




```
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In [ ]: