In [2]:
```
pip install PyMySQL
```

```
Requirement already satisfied: PyMySQL in c:\users\welcome\anaconda3\lib\site-packag
es (1.1.1)
Note: you may need to restart the kernel to use updated packages.
```

In [3]:
```
import sqlalchemy
import pandas as pd
import matplotlib.pyplot as plt
```

In [4]:
```
db = sqlalchemy.create_engine('mysql+pymysql://root:1234@localhost:3306/sales_db')
```

In [5]:
```
query = "SHOW TABLES"

sales = pd.read_sql_query(query,db)     #instead of df i will write sales =
sales
```

Out[5]:

	Tables_in_sales_db
0	sales

In [10]:
```
query = "SELECT * FROM SALES"

df = pd.read_sql_query(query,db)
df
```

Out[10]:

	id	product	quantity	price
0	1	Laptop	5	60000.0
1	2	Mobile	10	20000.0
2	3	Tablet	4	25000.0
3	4	Headphones	15	1500.0
4	5	Smartwatch	7	8000.0

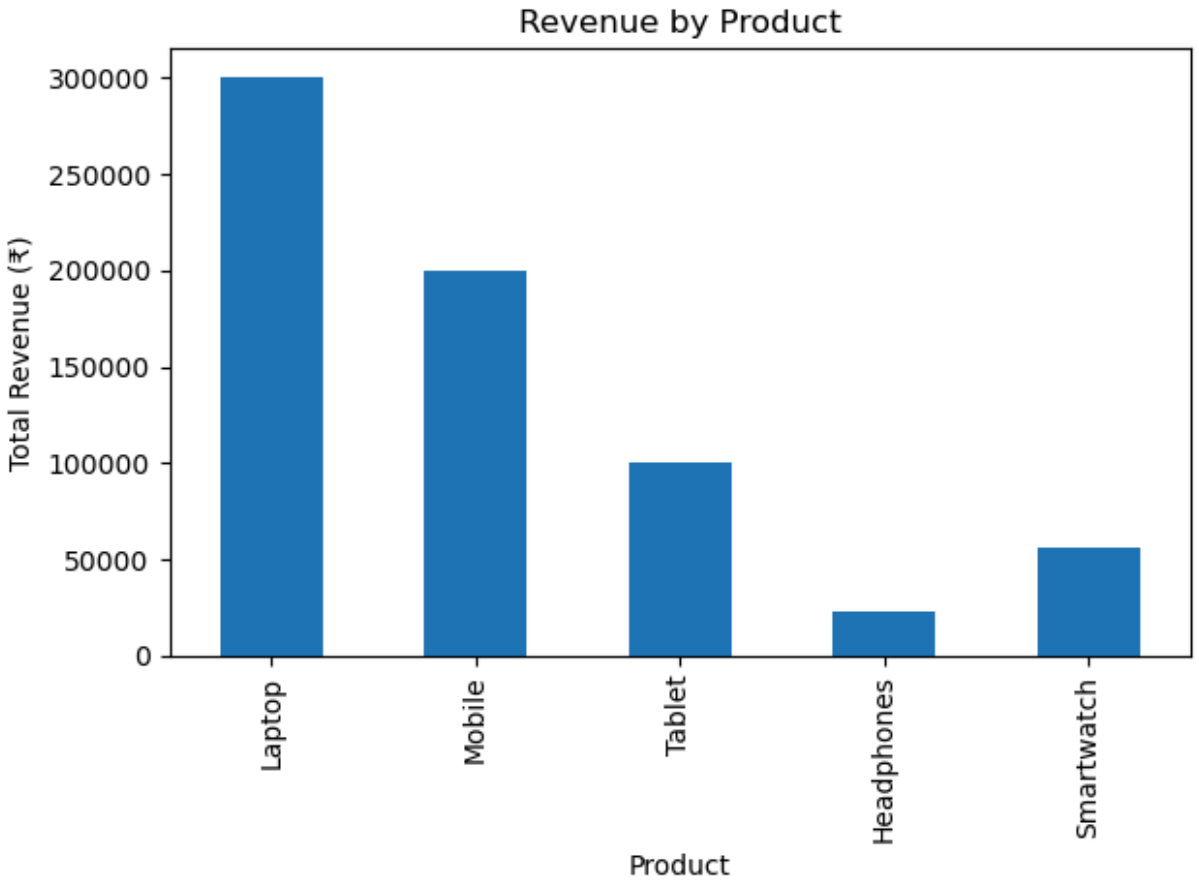
In [12]:
```
query = """
SELECT
    Product,
    SUM(quantity) AS Total_Qantity,
    SUM(quantity * price) AS Revenue
FROM
    sales
GROUP BY
    Product;
"""
```

In [14]:
```
# Run the summary query
df = pd.read_sql_query(query, db)
```

```
# Display output in Jupyter
display(df)
```

	Product	Total_Qantity	Revenue
0	Laptop	5.0	300000.0
1	Mobile	10.0	200000.0
2	Tablet	4.0	100000.0
3	Headphones	15.0	22500.0
4	Smartwatch	7.0	56000.0

In [16]:
```
df.plot(kind='bar', x='Product', y='Revenue', legend=False)
plt.title("Revenue by Product")
plt.xlabel("Product")
plt.ylabel("Total Revenue (₹)")
plt.tight_layout()
plt.show()
```



In [18]:
```
plt.savefig("sales_chart.png")
```

```
<Figure size 640x480 with 0 Axes>
```

In [ ]:
```

```