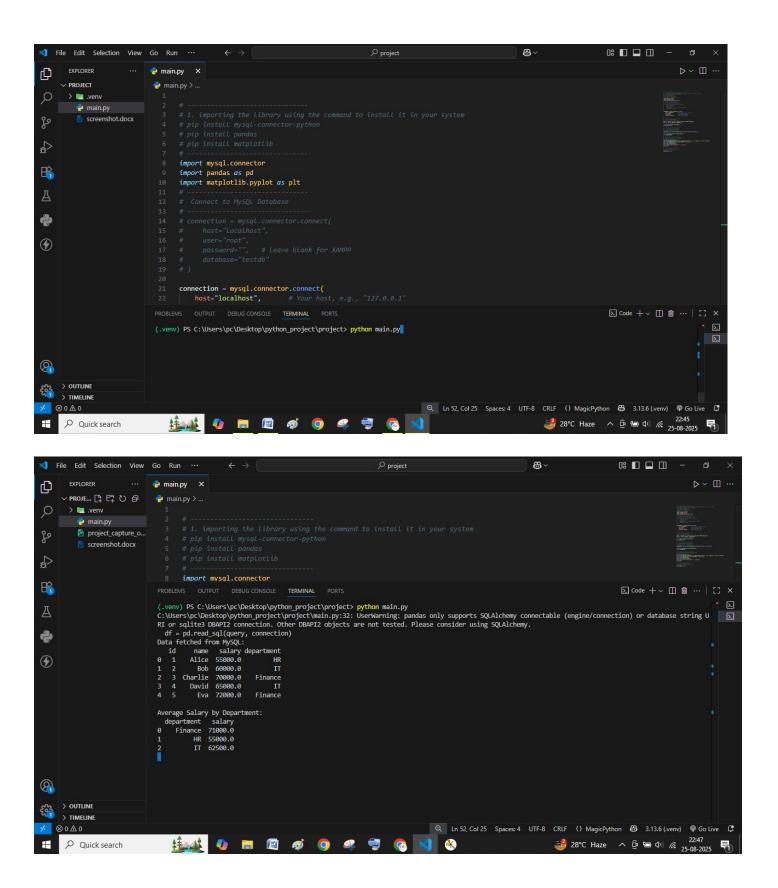


Screen shot of installing dependencies at first install XAMPP server and start it then dump the sql file into your db



Execute the program with this code

Make it advance based project as a day day 2 purpose make it industry use
Output

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        e advance-dashboa...
                                   plt.figure(figsize=(14, 8))
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plt.bar(avg_salary["department"], avg_salary["salary"], color="skyblue", edgecolor="black")
                                    plt.title("Average Salary by Department")
                                   plt.xlabel("Department")
略
                                   plt.ylabel("Average Salary")
                                    plt.grid(axis="y", linestyle="--", alpha=0.7)
Д
                                   plt.subplot(2, 2, 2)

plt.pie(emp.count["count"], labels=emp_count["department"], autopct="%1.1f%%", startangle=140,

colors=["lightcoral", "lightgreen", "lightblue", "gold"])

plt.title("Employee Distribution by Department")
(
                                   plt.subplot(2, 1, 2)
                                    plt.plot(salary_trend["id"], salary_trend["salary"], marker="o", linestyle="-", color="purple")
                                   plt.title("Employee Salary Trend (by ID)")
plt.xlabel("Employee ID")
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```
#day 1 code Beginning-project.py file name
# ------
# 1. importing the library using the command to install it in your system
```

```
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  وړ
                                                                                                                                   49 # --- Bar Chart: Average Salary ---
50 plt.subplot(2, 2, 1)
51 plt.bar(avg_salary["department"], avg_salary["salary"], color="skyblue", edgecolor="black")
52 plt.title("Average Salary by Department")
                                        e main.py
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                                                                                                                                Average Salary by Department:
(.venv) PS C:\Users\pc\Desktop\python_project\project> python advance-dashboard.py
Connected to MySQL (XAMPP)
Connected to MySQL (XAMPP)
C:\Users\pc\Desktop\python_project\project\advance-dashboard.py:26: UserWarning: pandas only supports SQLAlchemy connectable (engine/connection) or data
base string URI or sqlite3 DBAP12 connection. Other DBAP12 objects are not tested. Please consider using SQLAlchemy.

df = pd.read_sql(query, connection)
  ٩
                                                                                                                                   Data fetched from MySQL:
                                                                                                                                            1d name salary department
1 Alice 55000.0 HR
2 Bob 60000.0 IT
3 Charlis 70000.0 Finance
4 David 65000.0 IT
5 Eva 72000.0 Finance
 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 32:58 → © 🖦 Ф) (6: 25-08-2025)
     import mysql.connector
```

```
import pandas as pd
import matplotlib.pyplot as plt
connection = mysql.connector.connect(
   host="localhost", # Your host, e.g., "127.0.0.1"
user="root", # Your MySQL username
password="", # Your MySQL password
    database="testdb" # Your database name
query = "SELECT id, name, salary, department FROM employees"
df = pd.read_sql(query, connection)
print("Data fetched from MySQL:")
print(df.head())
avg_salary = df.groupby("department")["salary"].mean().reset_index()
print("\nAverage Salary by Department:")
print(avg_salary)
plt.figure(figsize=(8,5))
plt.bar(avg_salary["department"], avg_salary["salary"], color="skyblue",
edgecolor="black")
plt.title("Average Salary by Department", fontsize=14)
plt.xlabel("Department")
plt.ylabel("Average Salary")
plt.grid(axis="y", linestyle="--", alpha=0.7)
plt.show()
```

```
# ------
# 5. Close DB Connection
# -----connection.close()
```

Advance-dashboard.py

Code

```
import mysql.connector
import pandas as pd
import matplotlib.pyplot as plt
try:
    connection = mysql.connector.connect(
       host="localhost",
       user="root",  # default XAMPP user
password="",  # leave blank (no password by default)
        database="testdb" # make sure this DB exists in phpMyAdmin
    print("Connected to MySQL (XAMPP)")
except mysql.connector.Error as err:
    print("Connection Error:", err)
    exit()
query = "SELECT id, name, salary, department FROM employees"
df = pd.read_sql(query, connection)
print("\n Data fetched from MySQL:")
print(df.head())
avg_salary = df.groupby("department")["salary"].mean().reset_index()
emp_count = df["department"].value_counts().reset_index()
emp_count.columns = ["department", "count"]
```

```
salary trend = df.sort values("id")[["id", "salary"]]
plt.figure(figsize=(14, 8))
plt.subplot(2, 2, 1)
plt.bar(avg_salary["department"], avg_salary["salary"], color="skyblue",
edgecolor="black")
plt.title("Average Salary by Department")
plt.xlabel("Department")
plt.ylabel("Average Salary")
plt.grid(axis="y", linestyle="--", alpha=0.7)
plt.subplot(2, 2, 2)
plt.pie(emp_count["count"], labels=emp_count["department"], autopct="%1.1f%",
startangle=140,
        colors=["lightcoral", "lightgreen", "lightblue", "gold"])
plt.title("Employee Distribution by Department")
plt.subplot(2, 1, 2)
plt.plot(salary_trend["id"], salary_trend["salary"], marker="o", linestyle="-
", color="purple")
plt.title("Employee Salary Trend (by ID)")
plt.xlabel("Employee ID")
plt.ylabel("Salary")
plt.grid(True, linestyle="--", alpha=0.6)
plt.tight_layout()
plt.show()
connection.close()
print("MySQL connection closed")
```