

File

Edit

Selection

View

Go

Run

Terminal

Help

EXPLORER

OPEN EDITORS

file.py

README.txt

blank.txt

crtddb.sql

file.py

insddb.sql

README.txt

Schemas_Final.pdf

XYZGym.sqlite

file.py

query7

241

def query8(conn):

242

"""

243

Query 8:

244

Find the top three instructors who teach the most classes along with the count of classes they teach.

245

"""

246

SQL to group by instructor and count classes, then limit to the top three

247

sql = """

248

SELECT i.name, COUNT(c.classId) AS class_count

249

FROM Class c

250

JOIN Instructor i ON c.instructorId = i.instructorId

251

GROUP BY i.instructorId

252

ORDER BY class_count DESC

253

LIMIT 3;

254

"""

255

try:

256

cursor = conn.cursor()

257

cursor.execute(sql)

258

rows = cursor.fetchall()

259

print("[INFO] Query 8: Top three instructors by number of classes taught")

260

print("Instructor Name | Number of Classes")

261

print("-----")

262

if rows:

263

for row in rows:

264

print(" | ".join(str(col) for col in row))

265

else:

266

print("No instructor data found.")

267

except Error as e:

268

print(f"[ERROR] Query 8 failed: {e}")

269

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PS C:\Users\School\Documents\ENMU Spring 2025\CS-359\Group Project\Stage 3\DB-TEAM-8-\3> python file.py 8

C:\Users\School\Documents\ENMU Spring 2025\CS-359\Group Project\Stage 3\DB-TEAM-8-\3\file.py:27: DeprecationWarning: version is deprecated and will be removed in Python 3.14

print(f"[INFO] Connection established: SQLite version {sqlite3.version}")

[INFO] Connection established: SQLite version 2.6.0

[INFO] Query 8: Top three instructors by number of classes taught

Instructor Name | Number of Classes

Tom Brady | 1

LeBron James | 1

Usain Bolt | 1

[INFO] Connection closed.

PS C:\Users\School\Documents\ENMU Spring 2025\CS-359\Group Project\Stage 3\DB-TEAM-8-\3>

0

0

0

Ln 231, Col 43

Spaces: 4

UTF-8

CRLF

{}

Python

3.12.1

EXPLORES

OPEN EDITORS

file.py

README.txt

3

blank.txt

crtodb.sql

file.py

insdb.sql

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XYZGym.sqlite

file.py

query8

```
309
310 def query10(conn):
311     """
312     Query 10:
313     Get all members who attended classes in the last month along with class names and types.
314     """
315     sql = """
316         SELECT m.name,
317                COUNT(*) AS total_classes,
318                GROUP_CONCAT(c.className, ', ') AS classes_attended,
319                GROUP_CONCAT(DISTINCT c.classType) AS class_types
320     FROM Attends a
321     JOIN Member m ON a.memberId = m.memberId
322     JOIN Class c ON a.classId = c.classId
323     WHERE a.attendanceDate >= date('now', '-1 month')
324     GROUP BY m.memberId, m.name;
325     """
326     try:
327         cursor = conn.cursor()
328         cursor.execute(sql)
329         rows = cursor.fetchall()
330         print("[INFO] Query 10: Recent class attendance (last month)")
331         if rows:
332             # Define fixed widths for each column
333             header = f"{'Member Name':<20} {'Total Classes Attended':<25} {'Classes Attended':<40} {'Class Types':<30}"
334             print(header)
335             print("=" * len(header))
336             for row in rows:
337                 member_name, total_classes, classes_attended, class_types = row
338                 print(f"{'member_name':<20} {'total_classes':<25} {'classes_attended':<40} {'class_types':<30}")
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

```
PS C:\Users\School\Documents\ENMU Spring 2025\CS-359\Group Project\Stage 3\DB-TEAM-8-\3> python file.py 10
C:\Users\School\Documents\ENMU Spring 2025\CS-359\Group Project\Stage 3\DB-TEAM-8-\3\file.py:27: DeprecationWarning: version is deprecated and will be removed in Python 3.14
  print(f"[INFO] Connection established: SQLite version {sqlite3.version}")
[INFO] Connection established: SQLite version 2.6.0
[INFO] Query 10: Recent class attendance (last month)
Member Name      Total Classes Attended  Classes Attended      Class Types
=====
John Doe         1                      Yoga Basics          Yoga
[INFO] Connection closed.
PS C:\Users\School\Documents\ENMU Spring 2025\CS-359\Group Project\Stage 3\DB-TEAM-8-\3>
```

OUTLINE

TIMELINE

Ln 245, Col 8

Spaces: 4

UTF-8

CRLF

{ } Python

3.12.1