MINISTRY OF EDUCATION AND TRAINING

EASTERN INTERNATIONAL UNIVERSITY

MIS 443
BUSINESS DATA MANAGEMENT

Final Exam

Lecturers: ***Mr. Dang Thai Doan***
Ms. Huynh Tuyet Ngan

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Quarter 4/2024-2025

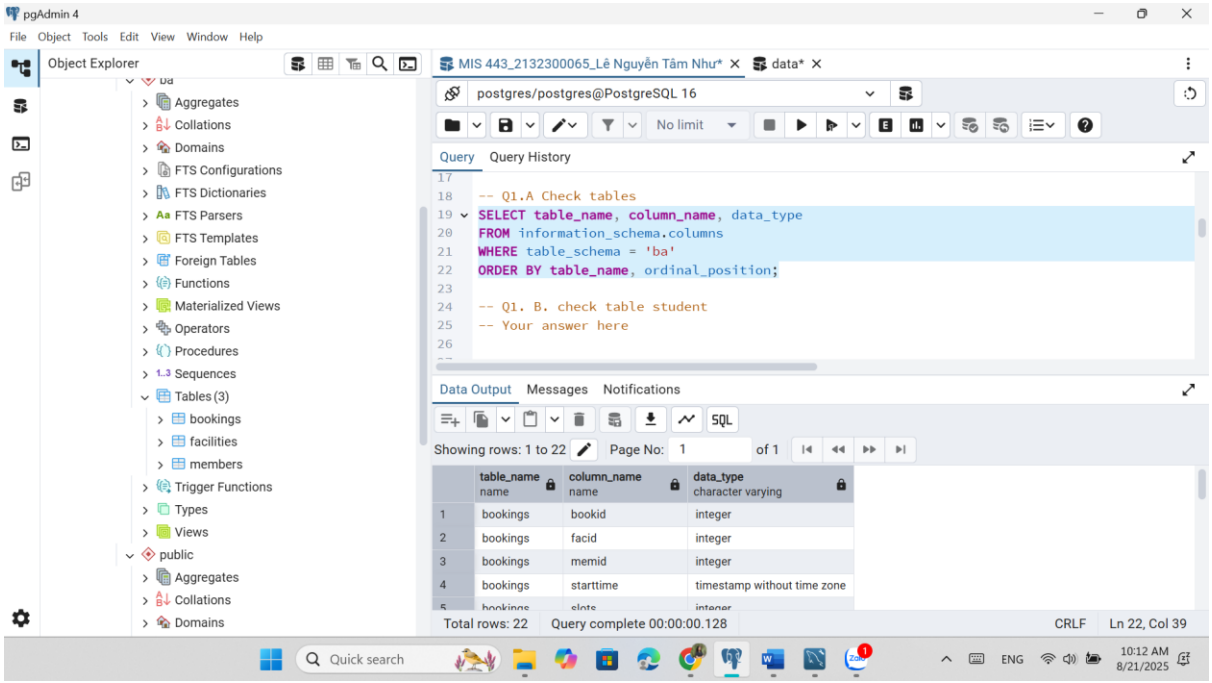
Date Submission: 21/8/2025

Github Link:

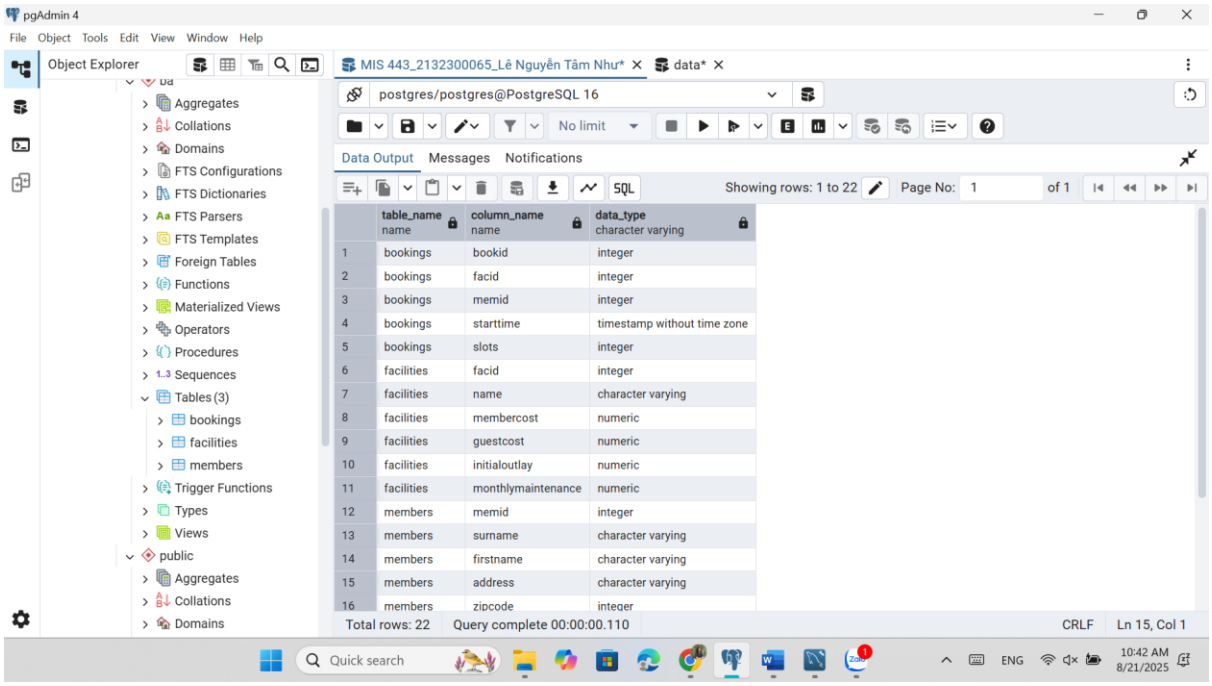
Question 1: Create a database named “yourfullname” (e.g: dangthaidoan”) use PGAdmin, then create a schema name “ba” that has three tables: members, bookings and facilities using SQL statements. Ensure each table includes appropriate primary and foreign keys, and data types.

A. Check tables

SQL Query:

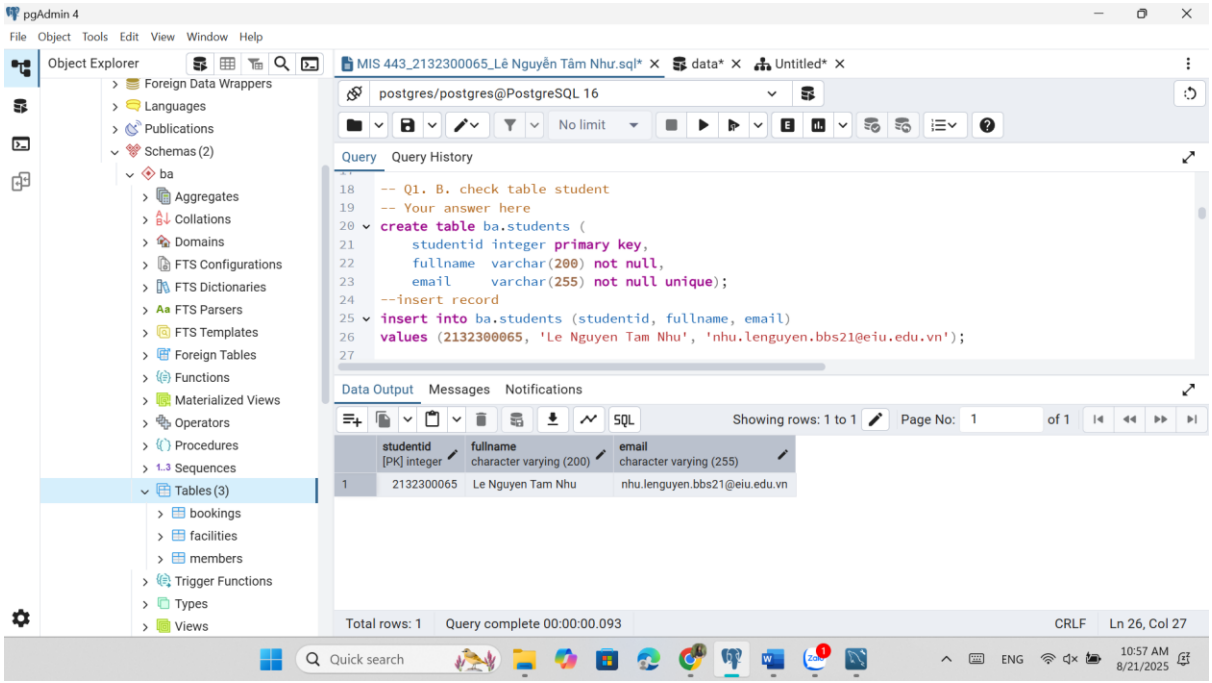


SQL output:

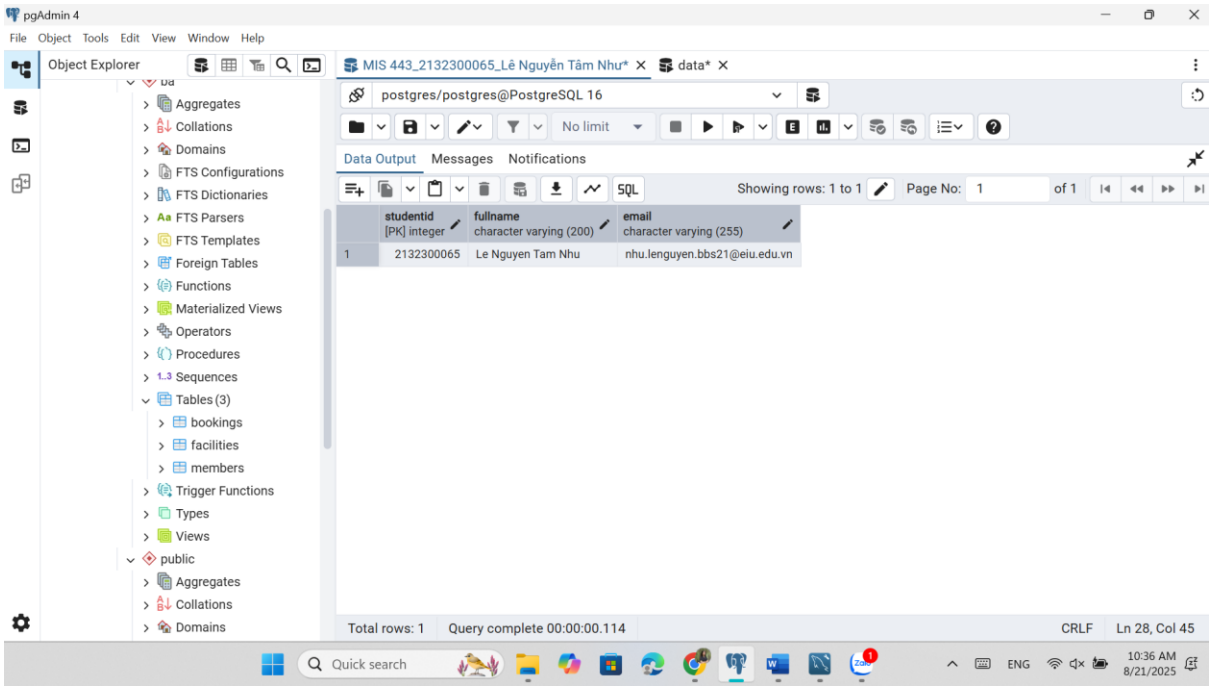


B. Check table student

SQL Query:

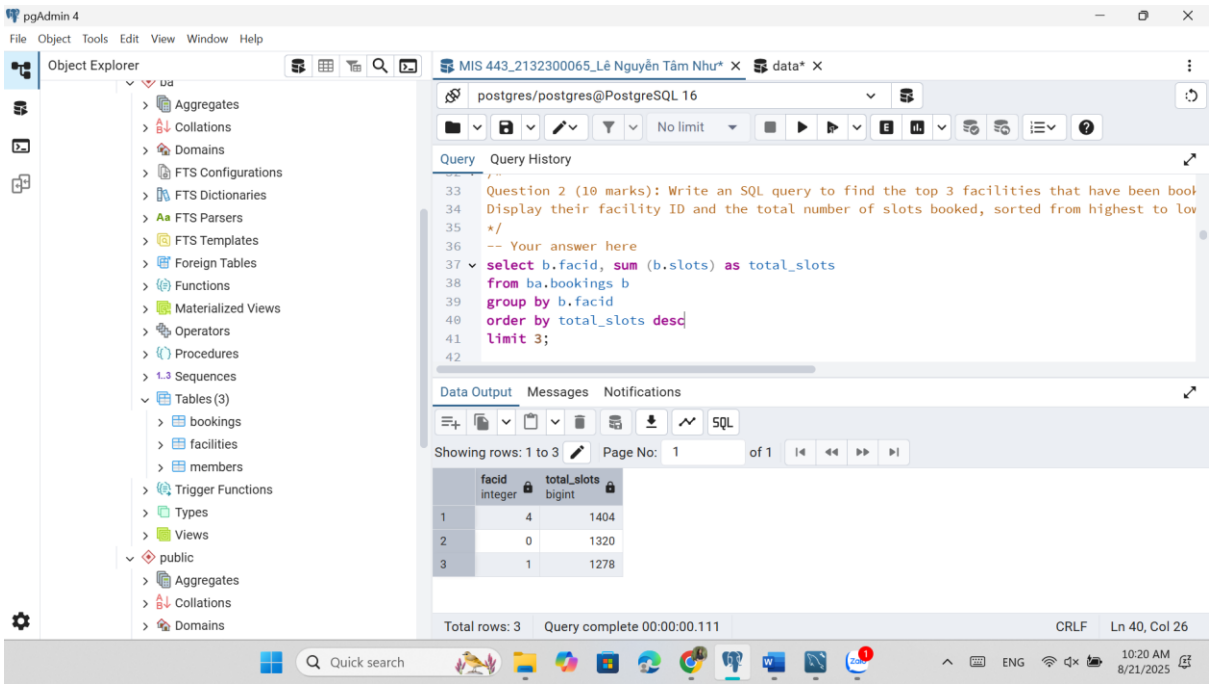


SQL output:

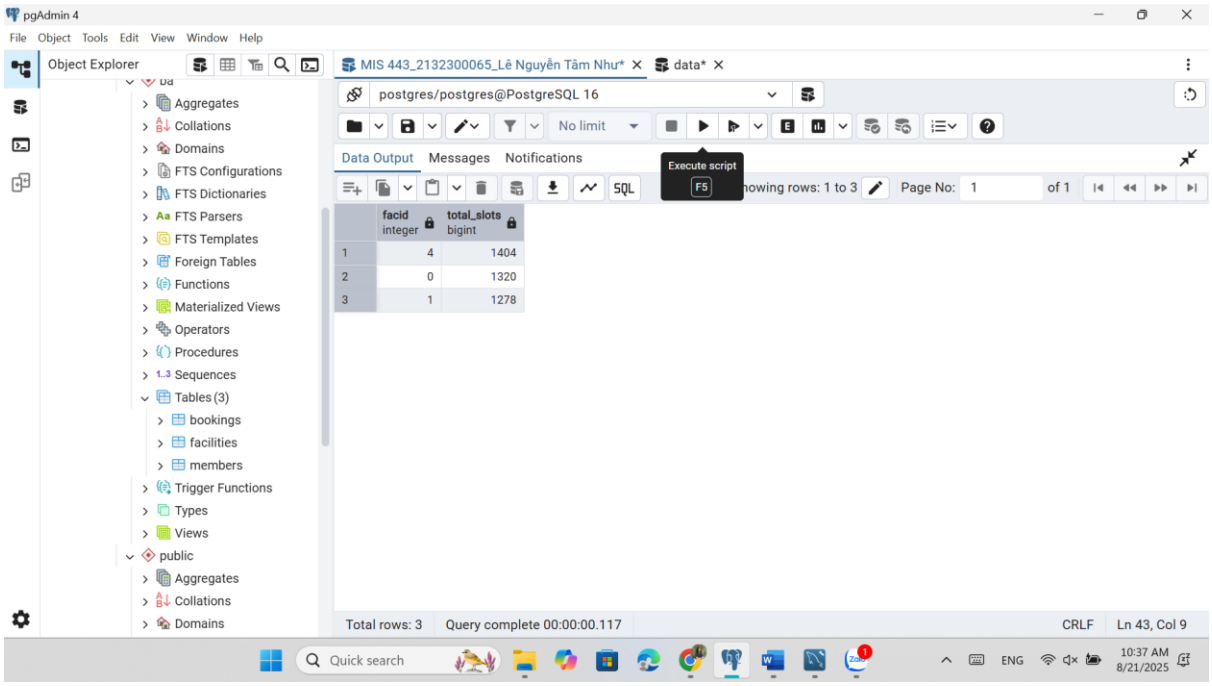


Question 2: Write an SQL query to find the top 3 facilities that have been booked the most number of total slots (not just number of bookings). Display their facility ID and the total number of slots booked, sorted from highest to lowest.

SQL Query:

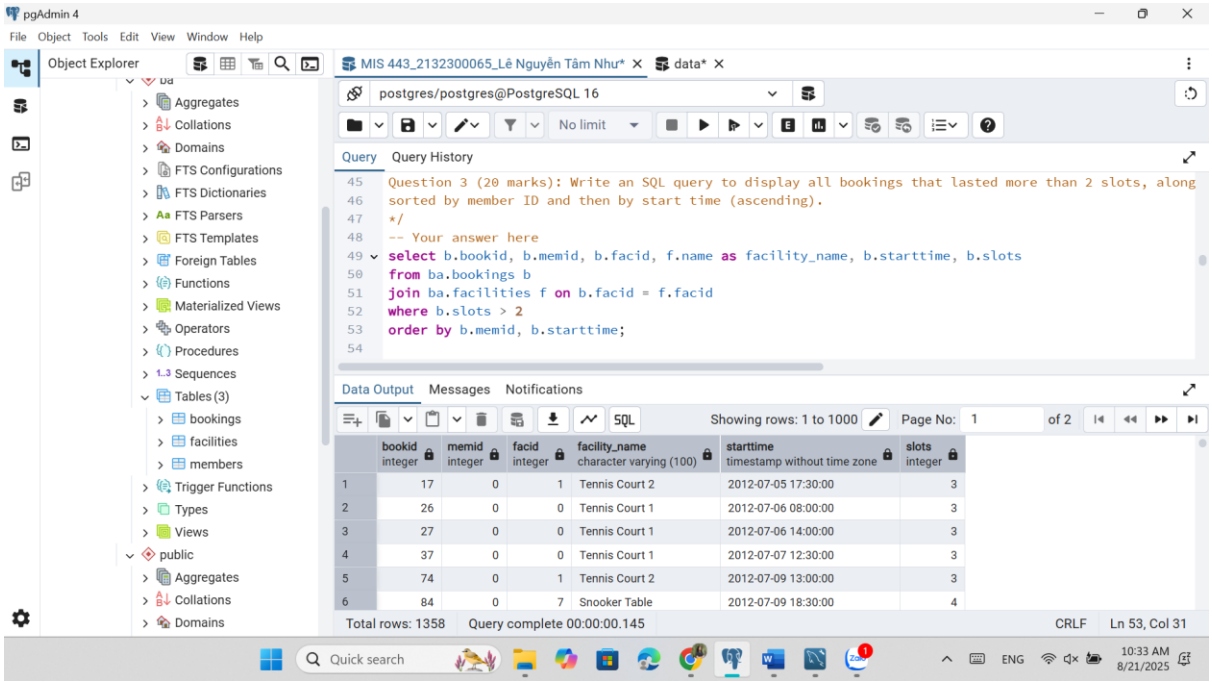


SQL output:

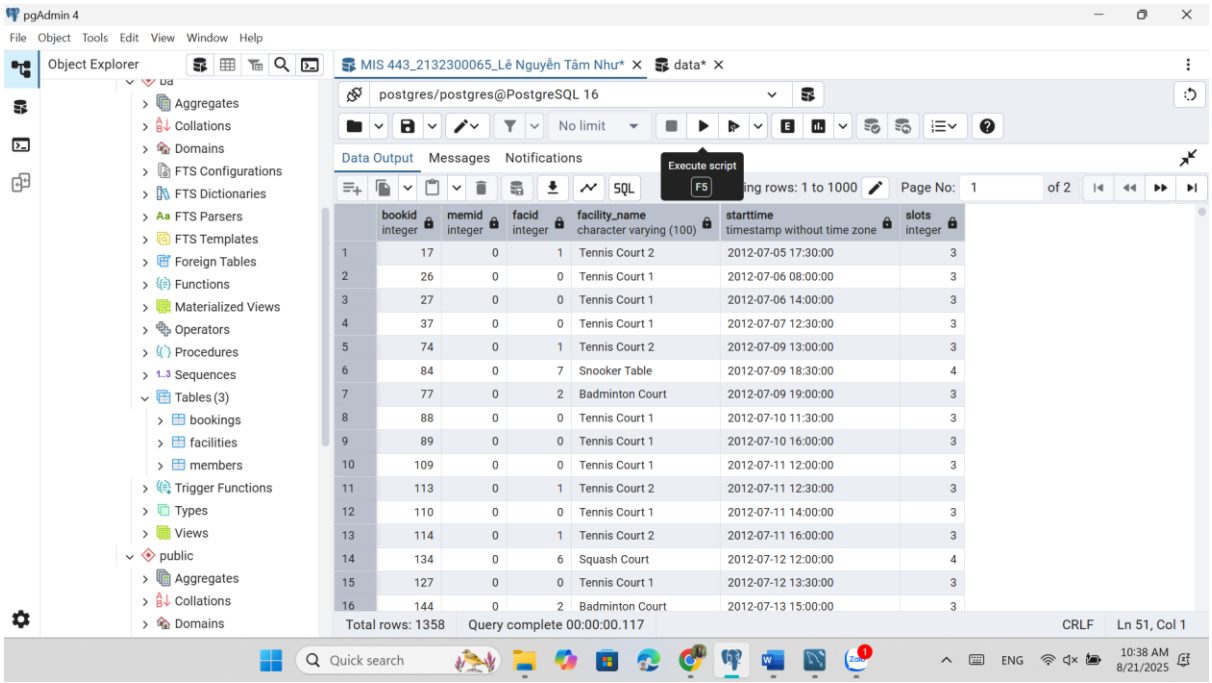


Question 3: Write an SQL query to display all bookings that lasted more than 2 slots, along with the member ID, facility ID, and facility name, sorted by member ID and then by start time (ascending).

SQL Query:



SQL output:


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
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data*
postgres/postgres@PostgreSQL 16
No limit
Data Output
Messages
Notifications
Execute script
F5
Page No: 1 of 2
Aggregates
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (3)
bookings
facilities
members
Trigger Functions
Types
Views
public
Aggregates
Collations
Domains
bookid integer
memid integer
facid integer
facility_name character varying (100)
starttime timestamp without time zone
slots integer
1 17 0 1 Tennis Court 2 2012-07-05 17:30:00 3
2 26 0 0 Tennis Court 1 2012-07-06 08:00:00 3
3 27 0 0 Tennis Court 1 2012-07-06 14:00:00 3
4 37 0 0 Tennis Court 1 2012-07-07 12:30:00 3
5 74 0 1 Tennis Court 2 2012-07-09 13:00:00 3
6 84 0 7 Snooker Table 2012-07-09 18:30:00 4
7 77 0 2 Badminton Court 2012-07-09 19:00:00 3
8 88 0 0 Tennis Court 1 2012-07-10 11:30:00 3
9 89 0 0 Tennis Court 1 2012-07-10 16:00:00 3
10 109 0 0 Tennis Court 1 2012-07-11 12:00:00 3
11 113 0 1 Tennis Court 2 2012-07-11 12:30:00 3
12 110 0 0 Tennis Court 1 2012-07-11 14:00:00 3
13 114 0 1 Tennis Court 2 2012-07-11 16:00:00 3
14 134 0 6 Squash Court 2012-07-12 12:00:00 4
15 127 0 0 Tennis Court 1 2012-07-12 13:30:00 3
16 144 0 2 Badminton Court 2012-07-13 15:00:00 3
Total rows: 1358
Query complete 00:00:00.117
CRLF
Ln 51, Col 1
Quick search
ENG
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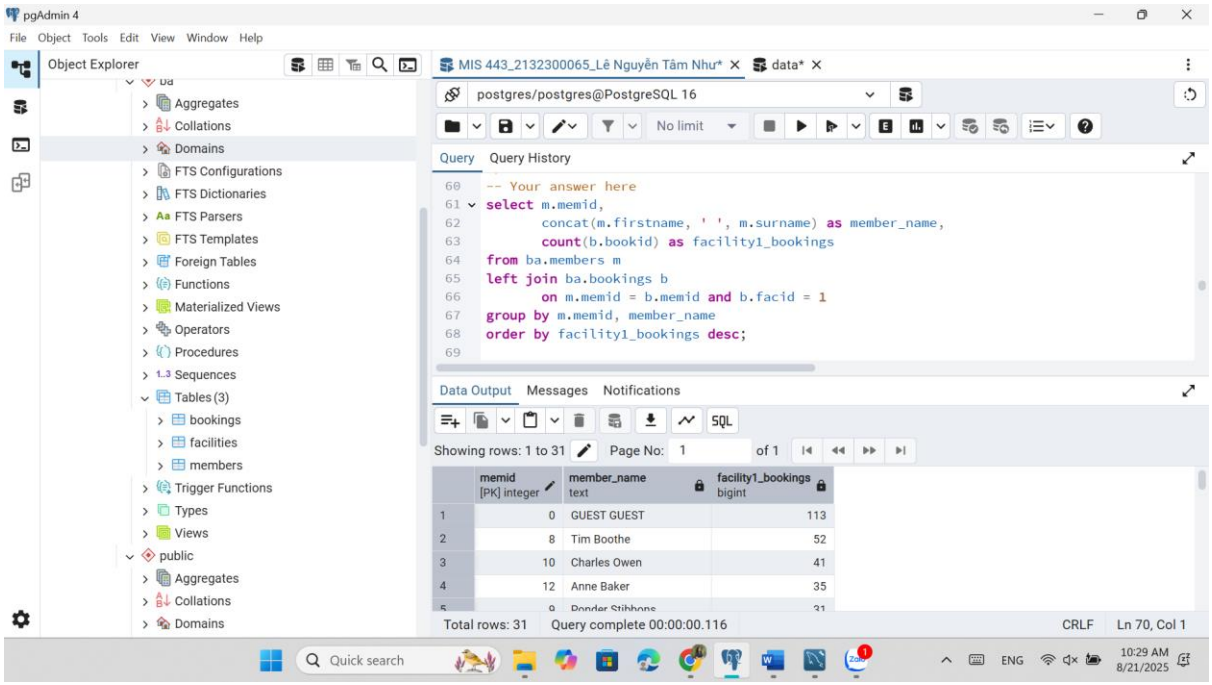
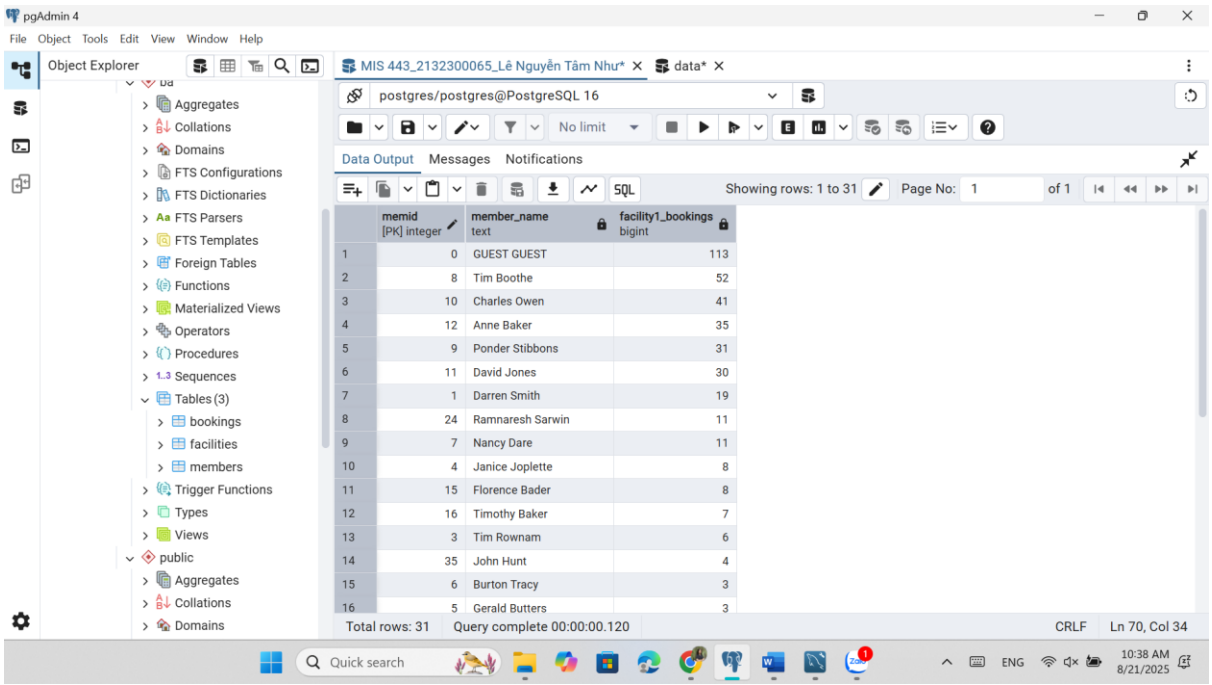
Question 4: Write an SQL query to display each member and the number of bookings they made for facility ID = 1. Include all members, even those who have never booked that facility.

SQL Query:

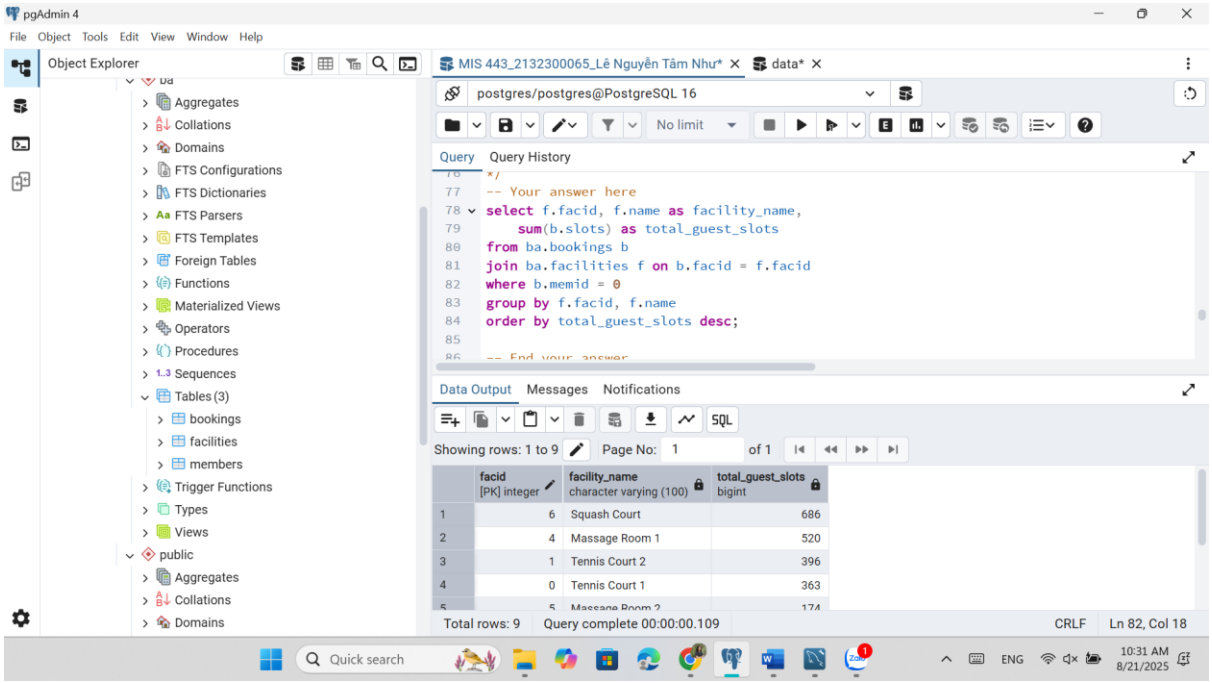


SQL output:

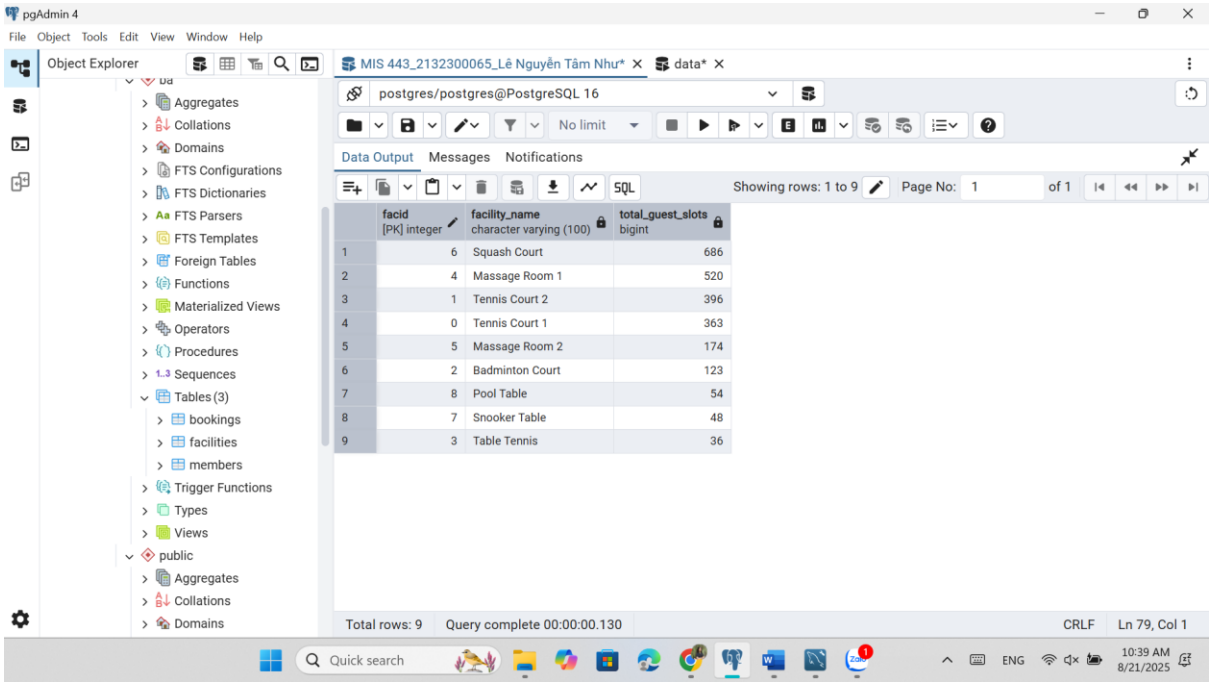


Question 5: Write an SQL query to show the total number of slots booked by guests (memid = 0) for each facility. Include the facility name and display the result in descending order of total slots used.

SQL Query:

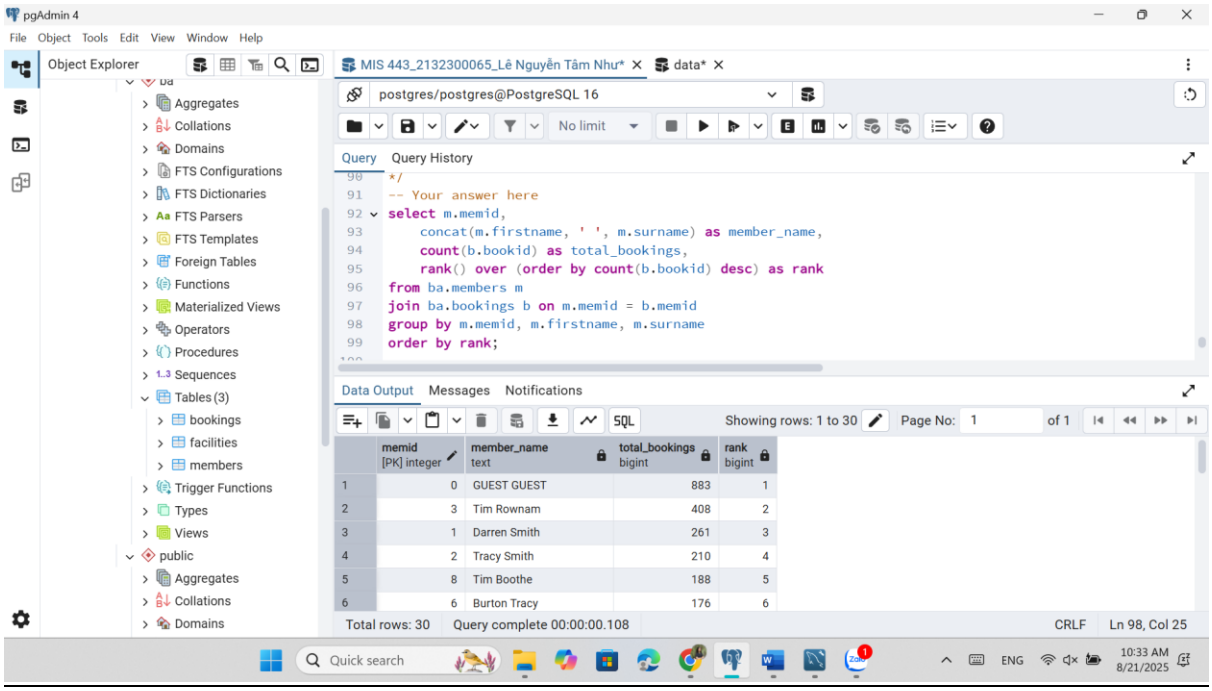
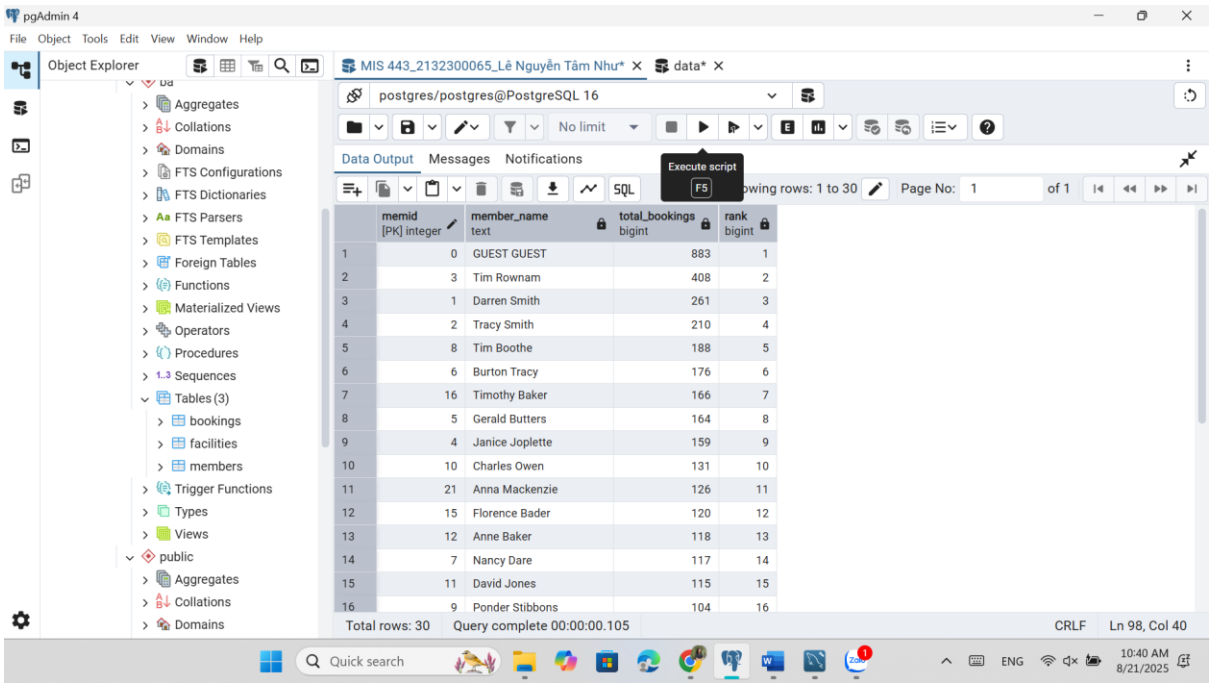


SQL output:



Question 6: Write an SQL query to rank members based on their total number of bookings. Members with the same number of bookings should have the same rank. Only include members who have made at least one booking

SQL Query:



SQL output: