SQL PROJECT (DODGERS SPORTS FACILITY CENTER)

Prepared for: **Portfolio**

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EXECUTIVE SUMMARY

Introduction

I'm currently focused on knowing SQL to fetch, manipulate and create data. In this new learning phase, I currently need to put out my new skills about SQL functions I self-learned. This is my first SQL project and I'm passionate about creating more. In this project, I will share the steps I took in analyzing the data, and lastly, I will be transparent with my report.

The Data

This project uses SQL (Structured Query Language) to perform an exploratory data analysis on the "Dodgers Sports Facility Center". This is fictitious (imaginary) client data for a certain company in the US region in Las Vegas. The file is broken down into three tables; "bookings, facilities, and members"

Solution

I made use of PostgreSQL as I'm more familiar with this ORDBMS (Oriental-Relational Database Management System). Also, I made use of the SQL functions to query for results.

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EXPLORATORY DATA ANALYSIS

Questions for Analysis

1. Are there duplicated data in the bookings table?
2. What are the sports facilities available in the Sports center?
3. What is the cost of facilities to both members and guests?
4. What are the names of facilities free for members to use?
5. What are the facilities that charge a fee to members and that fee is less than 1/50th of the monthly cost of maintenance?
6. Who are the members who joined after the start of September 2012?
7. What is the signup date of the first member?
8. What is the signup date of the last member?
9. How many facilities have a guest cost of 10 or more?
10. How many slots are booked per facility in the month of September 2012?
11. Which facility has more than 1,000 slots booked?
12. What are the start times for the bookings of tennis courts for the date 21st of September, 2012?
13. What are the start times bookings for the member “David Farrell”?

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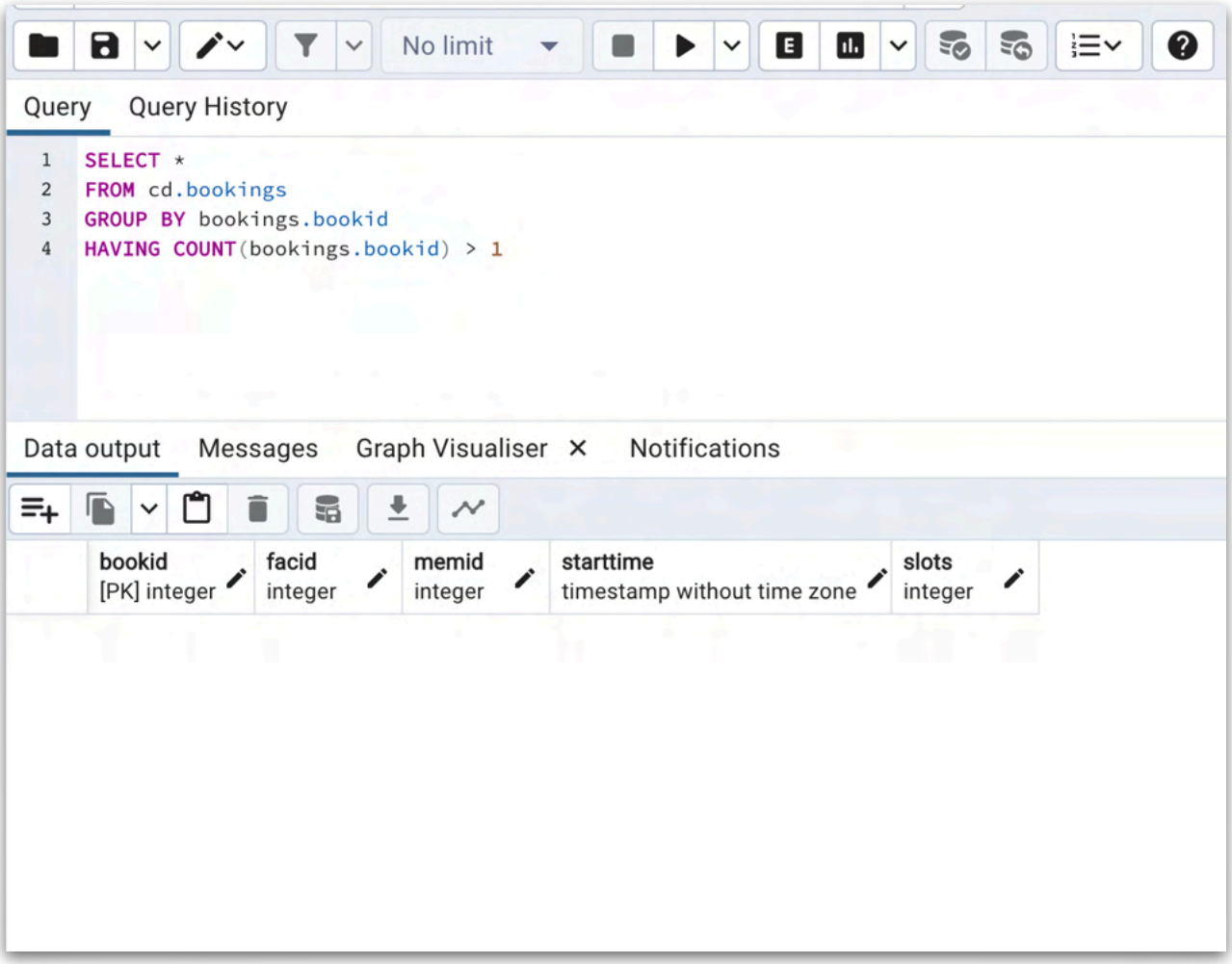
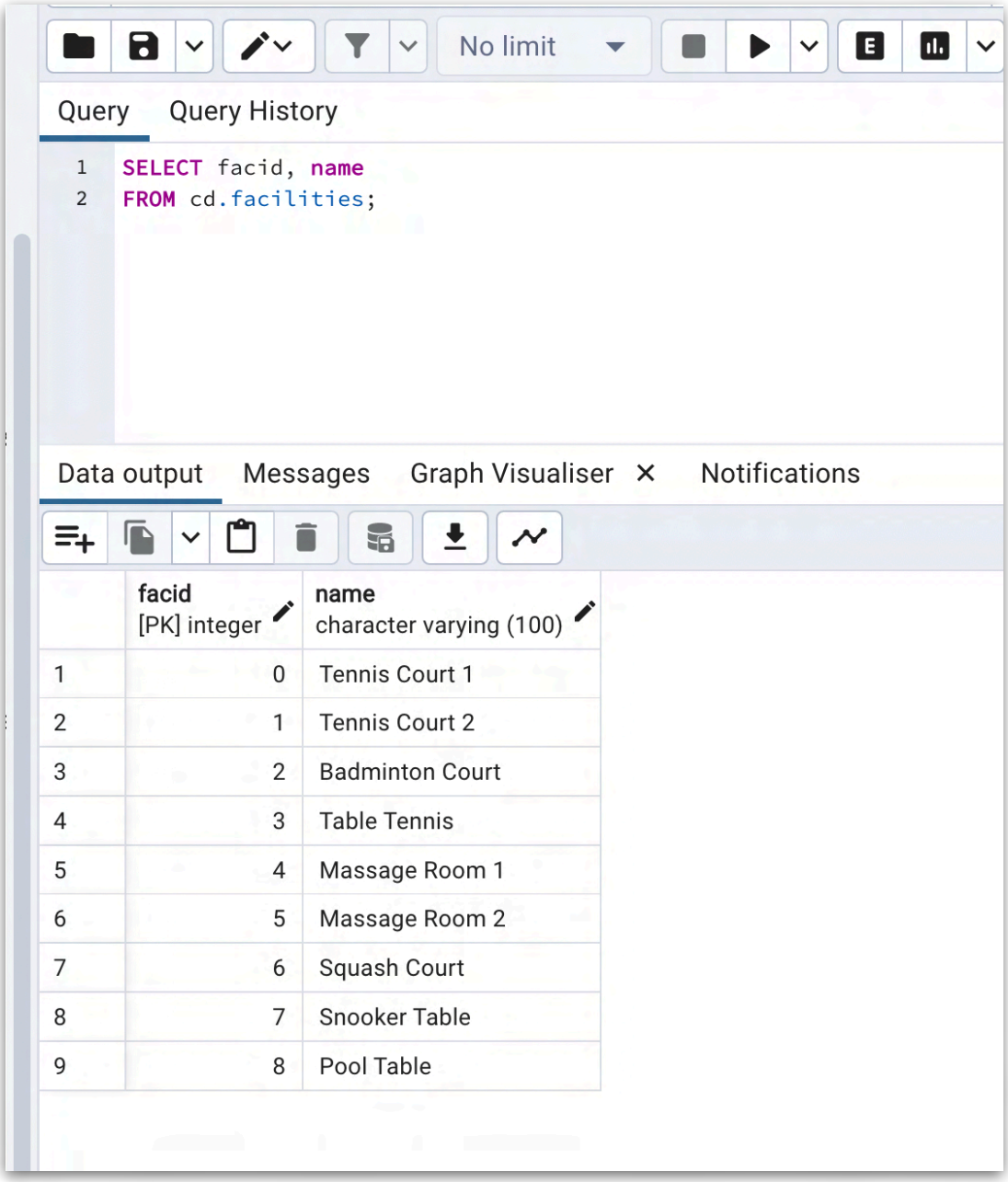
RESULTS

☑ Are there any duplicated data in the bookings table



The output of the query returns to be empty, hence, this signifies there were no duplicate data in the bookings table.

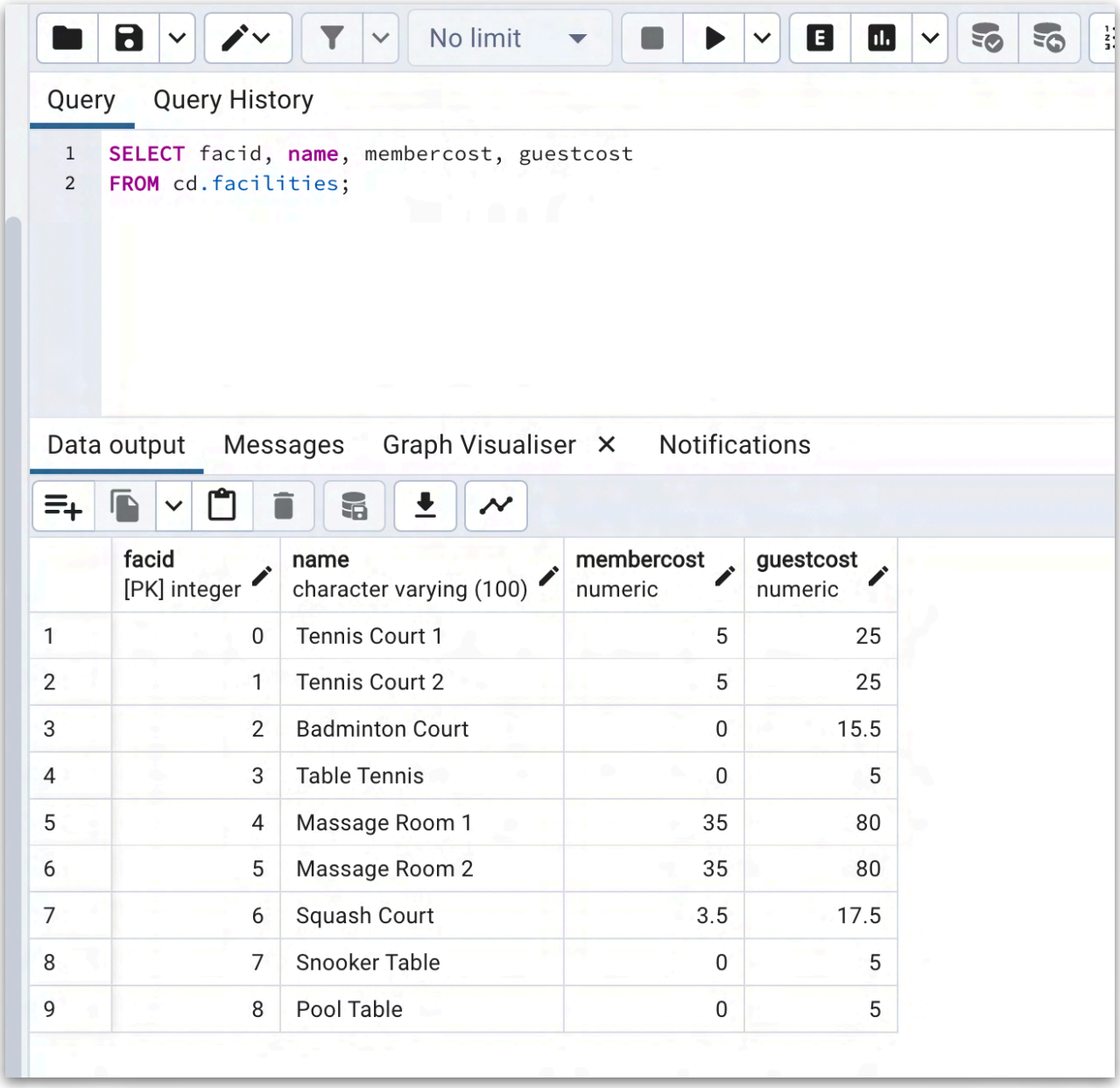
☑ What are the sports facilities available in the Sports center?



	facid [PK] integer	name character varying (100)
1	0	Tennis Court 1
2	1	Tennis Court 2
3	2	Badminton Court
4	3	Table Tennis
5	4	Massage Room 1
6	5	Massage Room 2
7	6	Squash Court
8	7	Snooker Table
9	8	Pool Table

There are 9 sports facilities available in the sports center with each allocated to an ID.

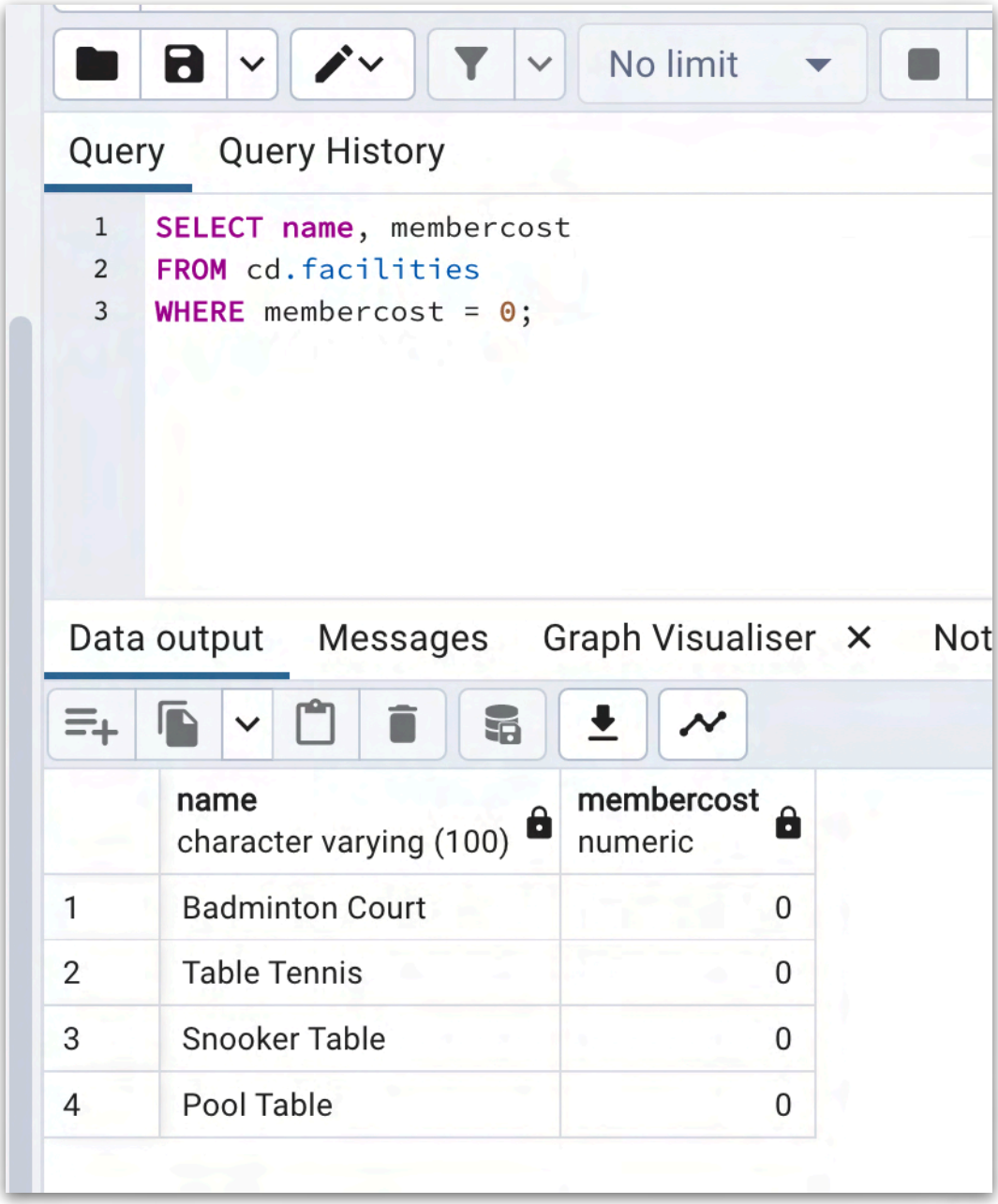
☑ What is the cost of facilities to both members and guests?



	facid [PK] integer	name character varying (100)	membercost numeric	guestcost numeric
1	0	Tennis Court 1	5	25
2	1	Tennis Court 2	5	25
3	2	Badminton Court	0	15.5
4	3	Table Tennis	0	5
5	4	Massage Room 1	35	80
6	5	Massage Room 2	35	80
7	6	Squash Court	3.5	17.5
8	7	Snooker Table	0	5
9	8	Pool Table	0	5

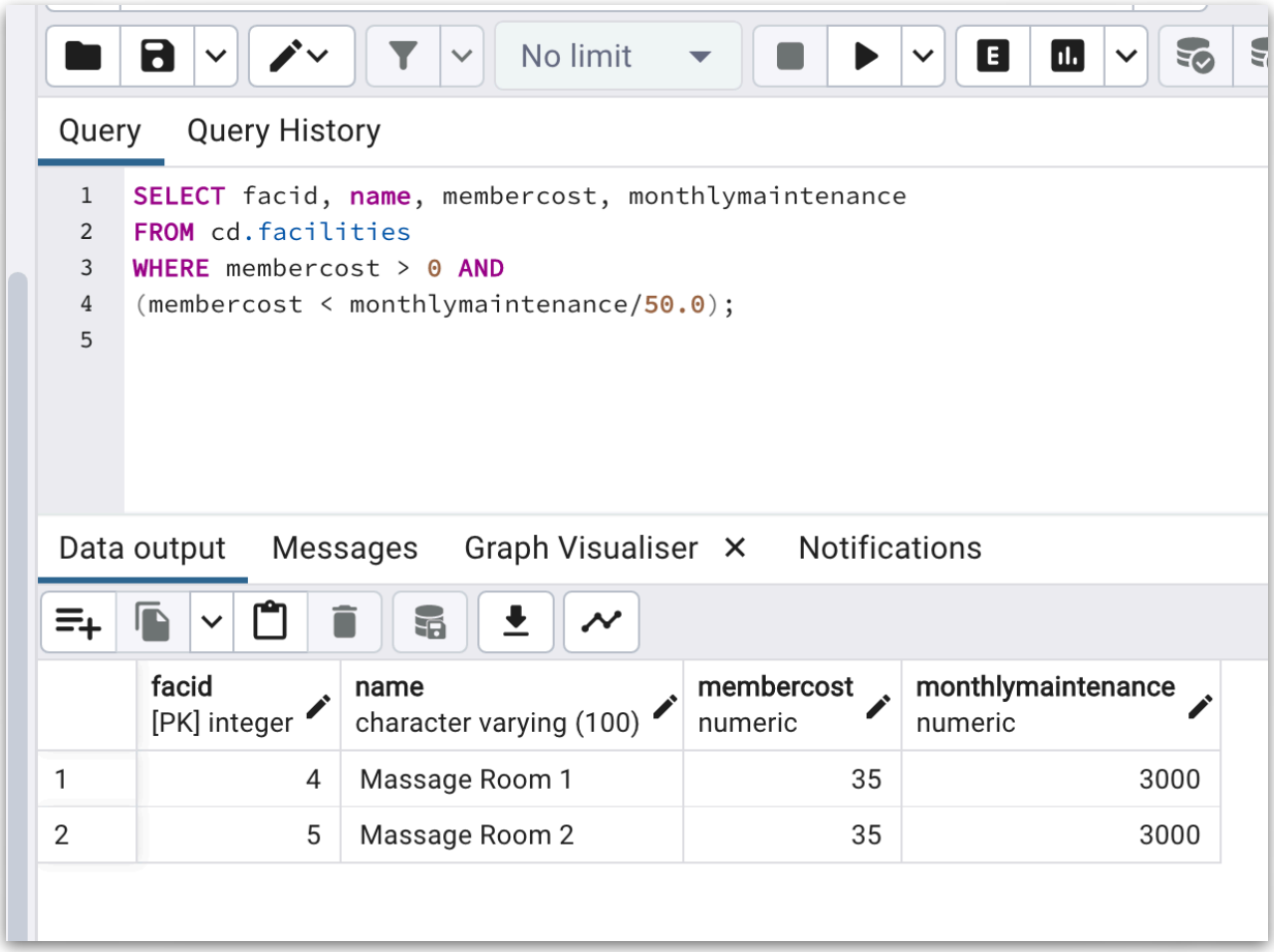
It is of notice that guests' cost is more expensive than members' cost.

☑ What are the names of facilities free for members to use?



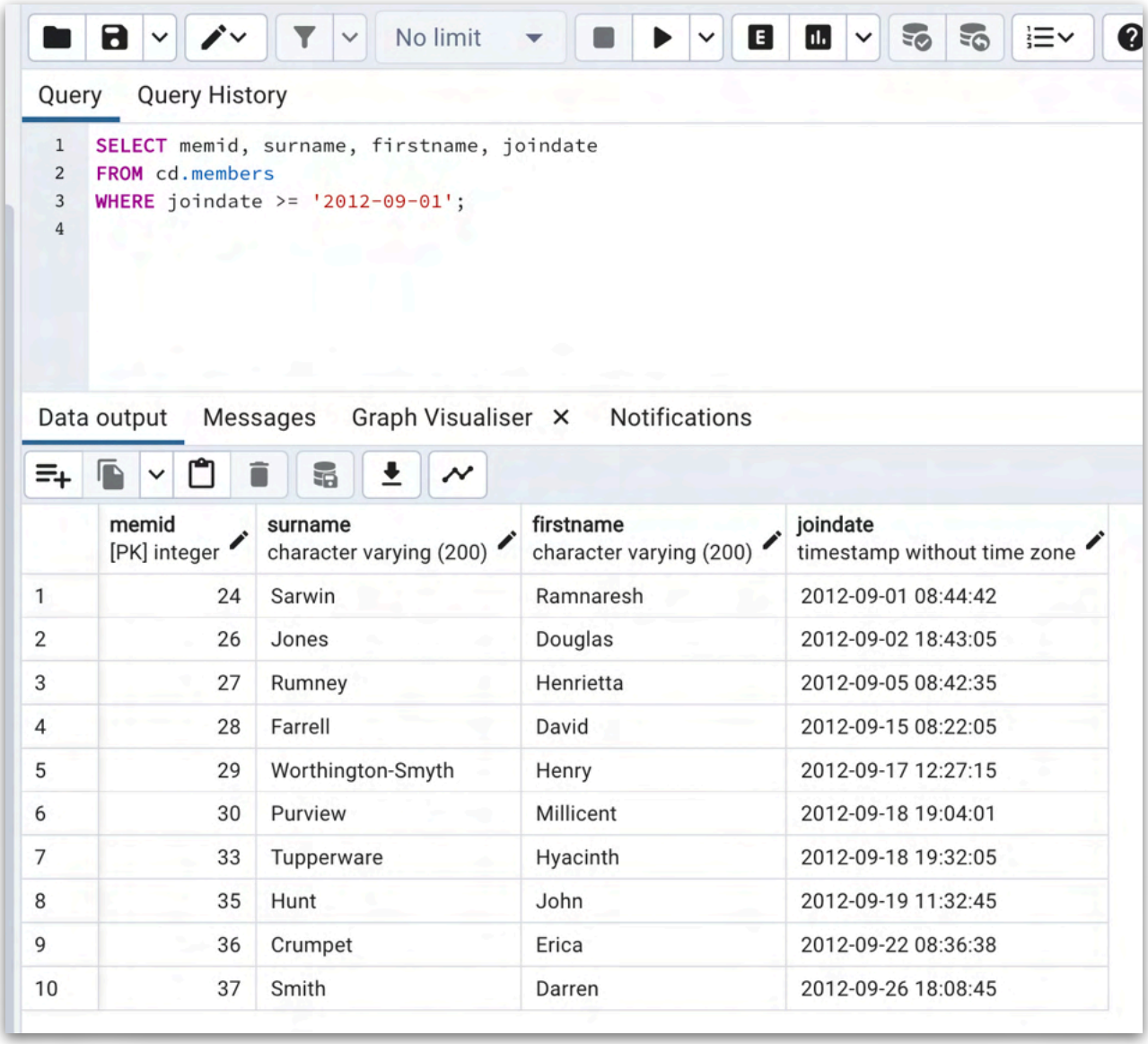
Badminton Court, Table Tennis, Snooker Table, and Pool Table are the 4 facilities free for members of the center to use.

☑ What are the facilities that charge a fee to members and that fee is less than 1/50th of the monthly cost of maintenance?



“Massage Room 1" and “Massage Room 2” are the only facilities charging a fee of less than 1/50th of the monthly cost of maintenance to members.

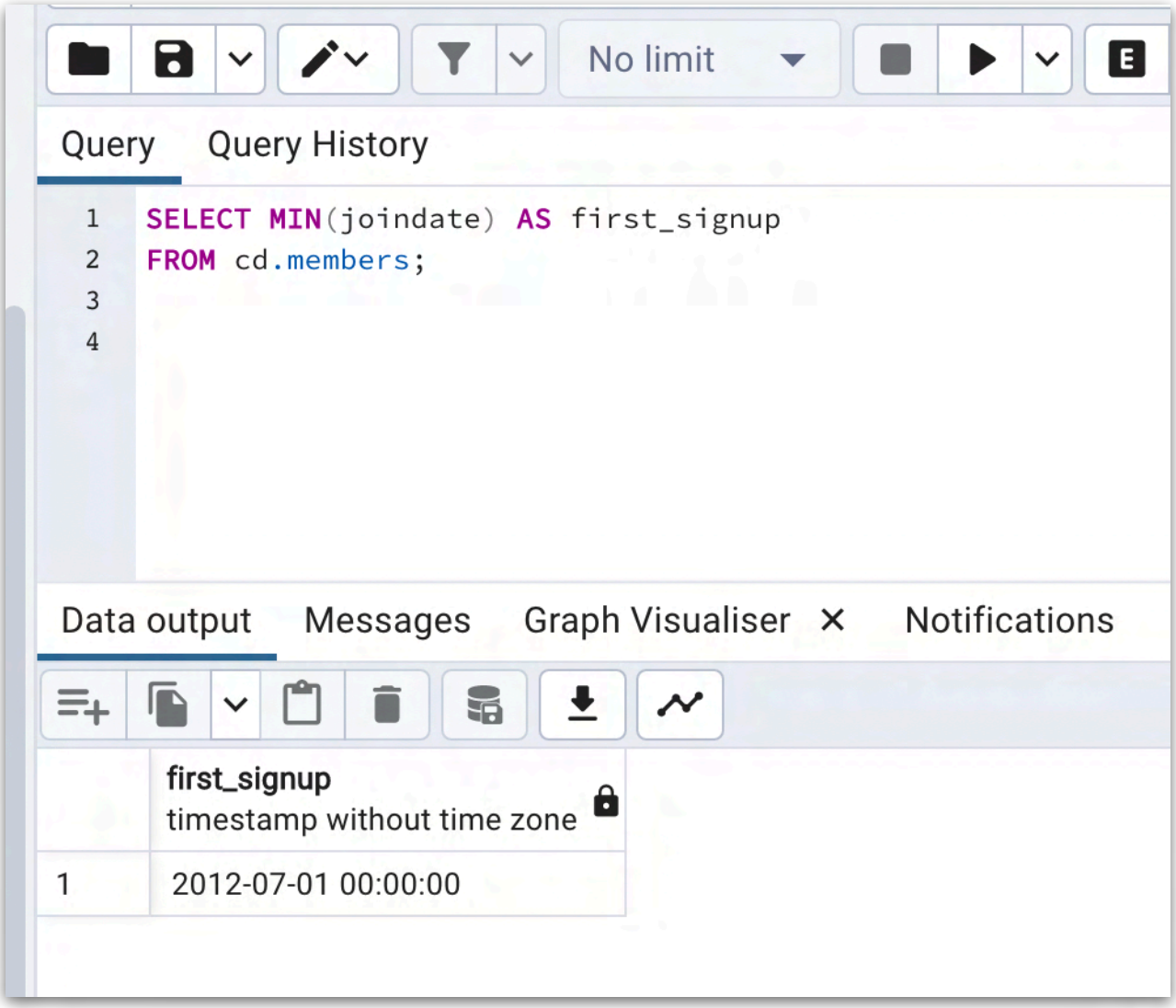
☑ Who are the members who joined after the start of September 2012?



	memid [PK] integer	surname character varying (200)	firstname character varying (200)	joindate timestamp without time zone
1	24	Sarwin	Ramnaresh	2012-09-01 08:44:42
2	26	Jones	Douglas	2012-09-02 18:43:05
3	27	Rumney	Henrietta	2012-09-05 08:42:35
4	28	Farrell	David	2012-09-15 08:22:05
5	29	Worthington-Smyth	Henry	2012-09-17 12:27:15
6	30	Purview	Millicent	2012-09-18 19:04:01
7	33	Tupperware	Hyacinth	2012-09-18 19:32:05
8	35	Hunt	John	2012-09-19 11:32:45
9	36	Crumpet	Erica	2012-09-22 08:36:38
10	37	Smith	Darren	2012-09-26 18:08:45

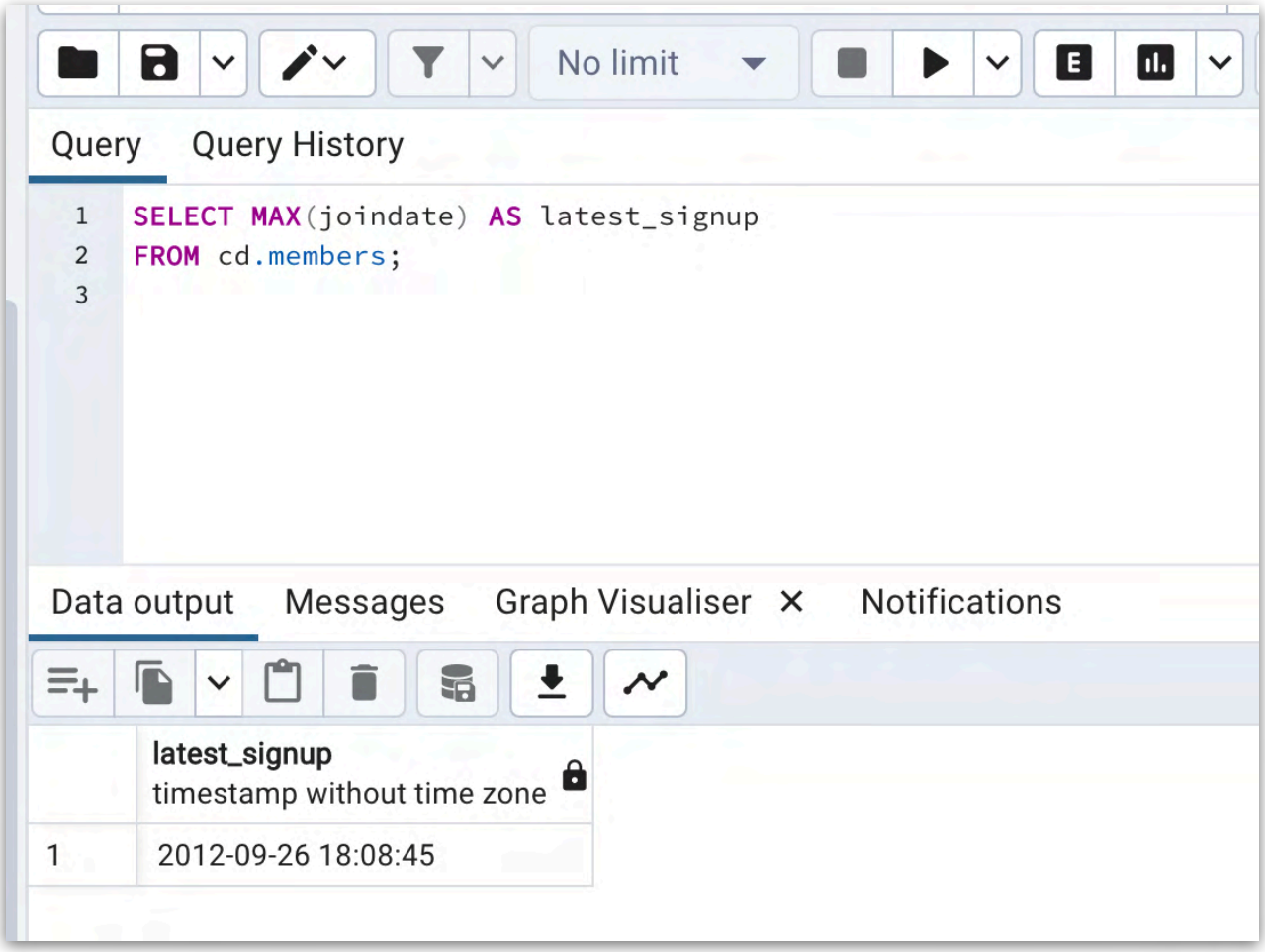
This shows the list of members joining the sport center after the start of September.

☑ What is the signup date of the first member?



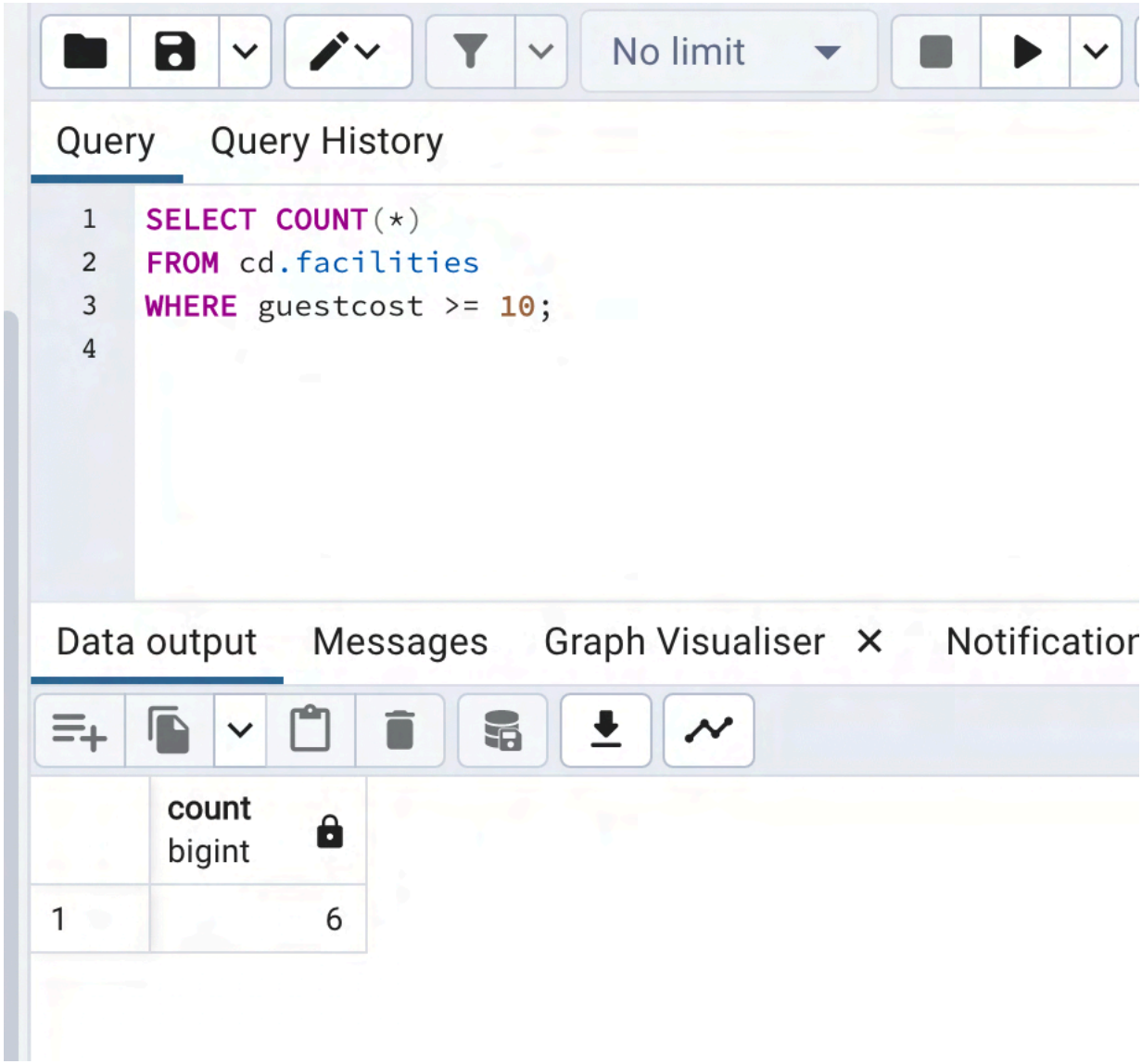
The query returns the date the first signup was made at the center.

☑ What is the signup date of the last member?



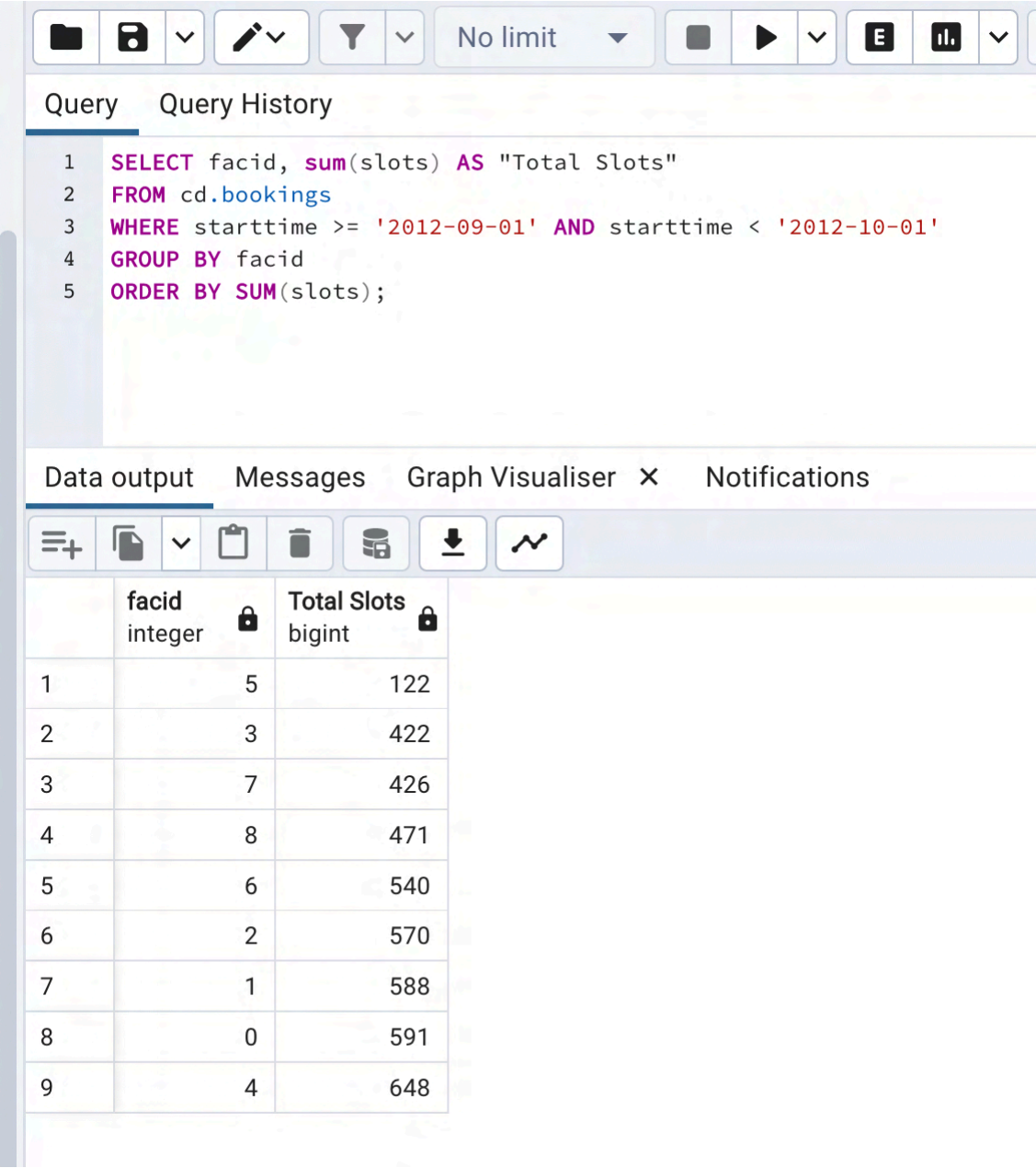
The query returns the date the last signup was made at the center.

☑ How many facilities have a guest cost of 10 or more?



There are 6 facilities that cost more than $10 to the guests'.

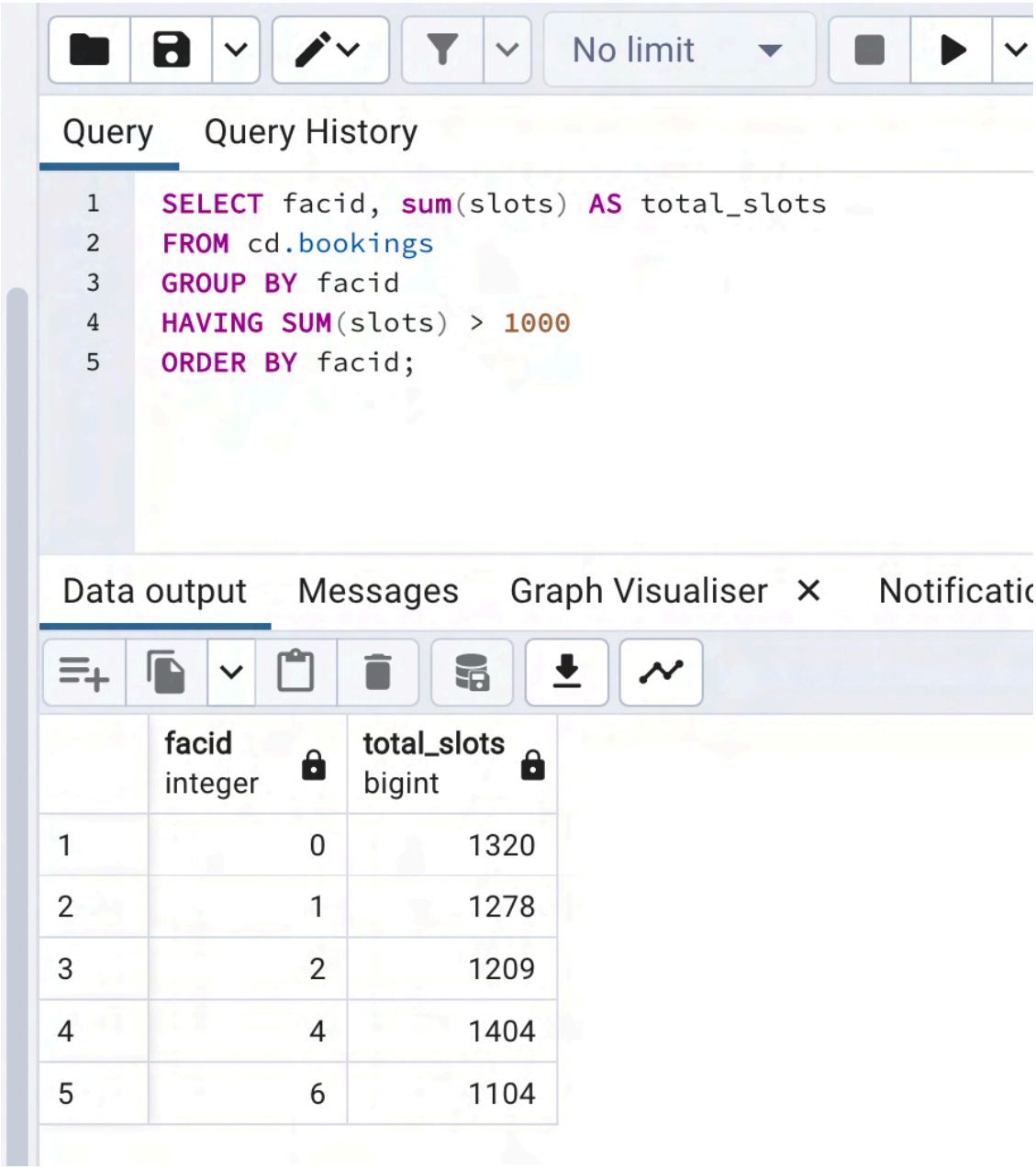
☑ How many slots are booked per facility in the month of September 2012?



	facid integer	Total Slots bigint
1	5	122
2	3	422
3	7	426
4	8	471
5	6	540
6	2	570
7	1	588
8	0	591
9	4	648

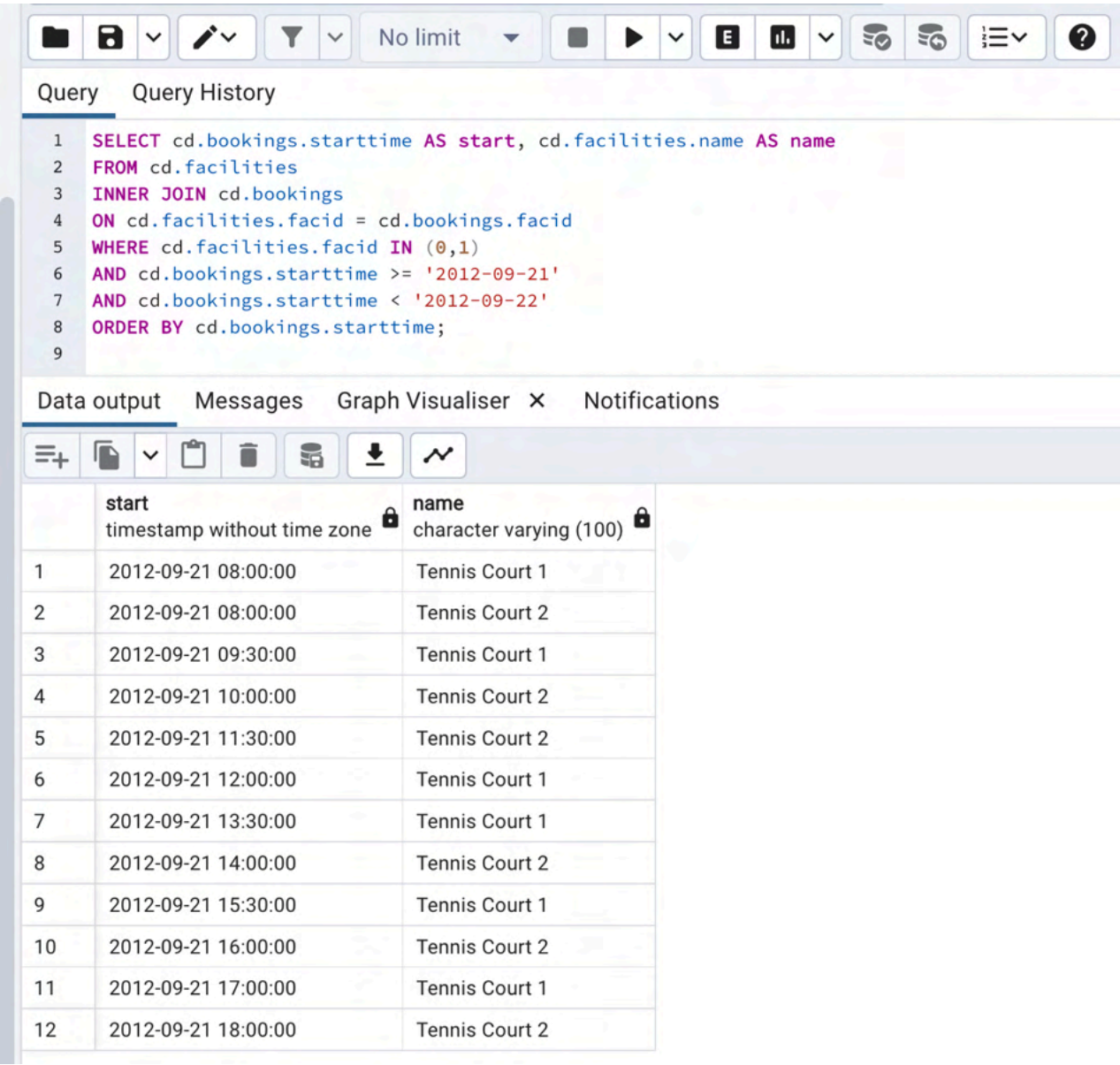
This shows the number of slots booked per facility in the month of September.

☑ **Which facility has more than 1,000 slots booked?**



	facid integer	total_slots bigint
1	0	1320
2	1	1278
3	2	1209
4	4	1404
5	6	1104

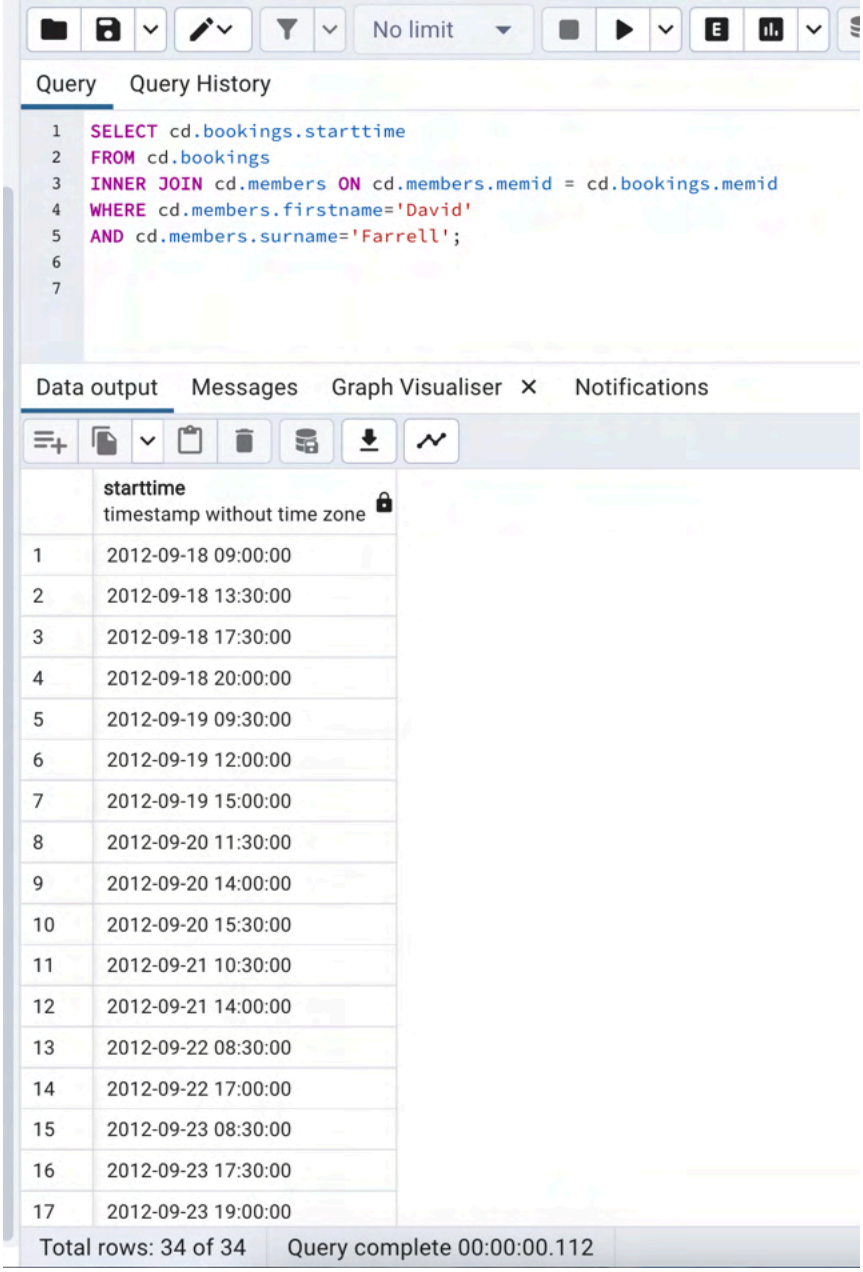
What are the start times for the bookings of tennis courts for the date 21st of September, 2012?



	start timestamp without time zone	name character varying (100)
1	2012-09-21 08:00:00	Tennis Court 1
2	2012-09-21 08:00:00	Tennis Court 2
3	2012-09-21 09:30:00	Tennis Court 1
4	2012-09-21 10:00:00	Tennis Court 2
5	2012-09-21 11:30:00	Tennis Court 2
6	2012-09-21 12:00:00	Tennis Court 1
7	2012-09-21 13:30:00	Tennis Court 1
8	2012-09-21 14:00:00	Tennis Court 2
9	2012-09-21 15:30:00	Tennis Court 1
10	2012-09-21 16:00:00	Tennis Court 2
11	2012-09-21 17:00:00	Tennis Court 1
12	2012-09-21 18:00:00	Tennis Court 2

Results of Start times of Tennis facilities.

☑ What are the start times bookings for the member “David Farrell”?



Start times bookings of David Farrell on all days present at the center.

CONCLUSION

In finding solutions to my analysis, I made use of the SQL functions and the aggregate functions, including the MIN, MAX, COUNT, AVG, HAVING, etc.

The questions answered by this analysis are insightful and can answer the business questions of the organization if needs arrive for driving out Information.

This is my first SQL project, and I'm looking forward to getting more of it done. Thanks for going through it.

THANK YOU !!!