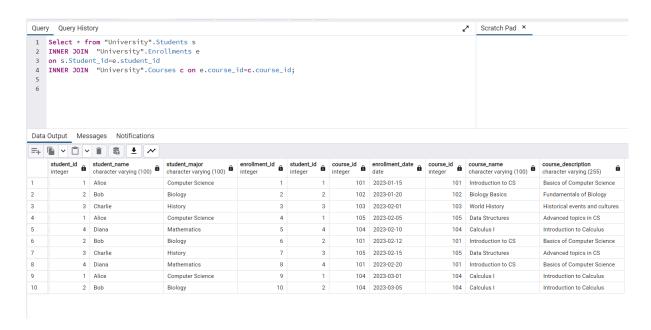
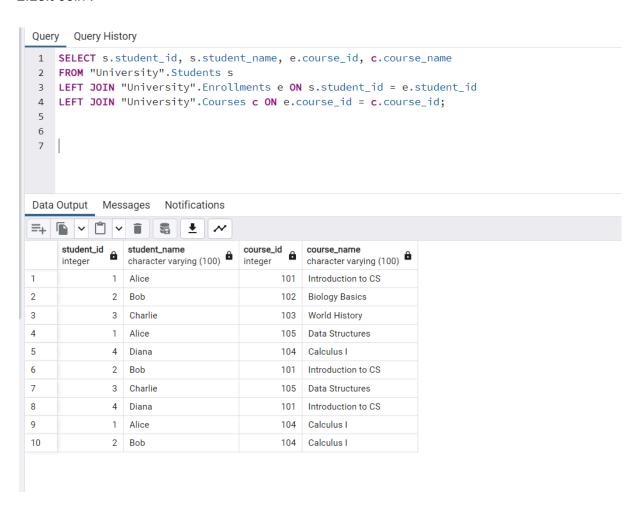
1.Inner-Join:



2:Left-Join:



3:Right-Join:

9

10

```
1 SELECT s.student_id, s.student_name, e.course_id, c.course_name
    FROM "University".Students s
 2
 3 RIGHT JOIN "University".Enrollments e ON s.student_id = e.student_id
    RIGHT JOIN "University".Courses c ON e.course_id = c.course_id;
Data Output Messages Notifications
    course_id
     student_id
                 student_name
                                                  course_name
                                                  character varying (100)
                 character varying (100)
     integer
                                       integer
1
                                                   Introduction to CS
                  Alice
                                              101
2
              2
                 Bob
                                              102
                                                   Biology Basics
3
                 Charlie
                                                  World History
              3
                                              103
4
               1
                 Alice
                                              105
                                                   Data Structures
5
              4
                 Diana
                                              104
                                                   Calculus I
              2
6
                 Bob
                                              101
                                                   Introduction to CS
7
              3
                 Charlie
                                              105
                                                   Data Structures
8
                 Diana
                                              101
                                                   Introduction to CS
```

104

104

Calculus I

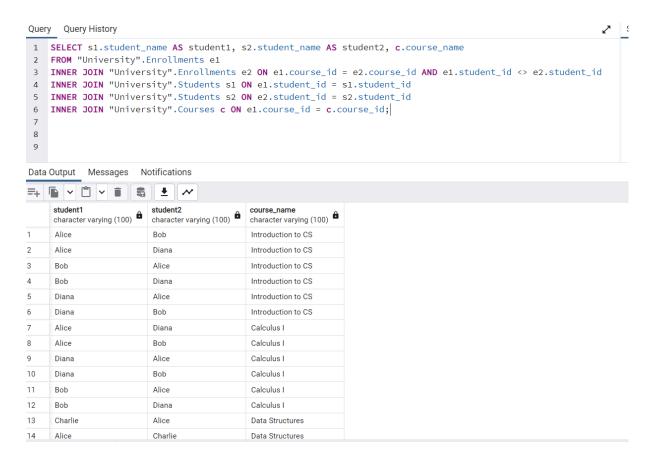
Calculus I

Total rows: 10 of 10 Query complete 00:00:00.061

1 Alice

2 Bob

4.Self-Join:



5. Complex-Join:



Row_Number:

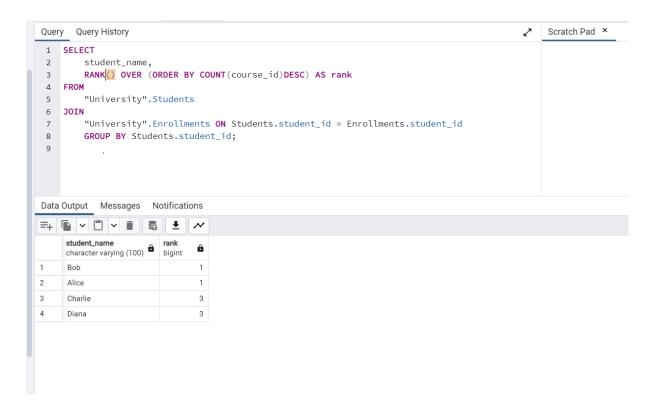
```
SELECT
    student_name,
    enrollment_date,
    ROW_NUMBER() OVER (ORDER BY enrollment_date) AS row_num
FROM
    "University".Students

JOIN
    "Uhiversity".Enrollments ON Students.student_id = Enrollments.student_id;
```

a Output Messages Notifications

	± ~	
student_name character varying (100)	enrollment_date date	row_num bigint
Alice	2023-01-15	1
Bob	2023-01-20	2
Charlie	2023-02-01	3
Alice	2023-02-05	4
Diana	2023-02-10	5
Bob	2023-02-12	6
Charlie	2023-02-15	7
Diana	2023-02-20	8
Alice	2023-03-01	9
Bob	2023-03-05	10

Rank:



Dense_Rank:

