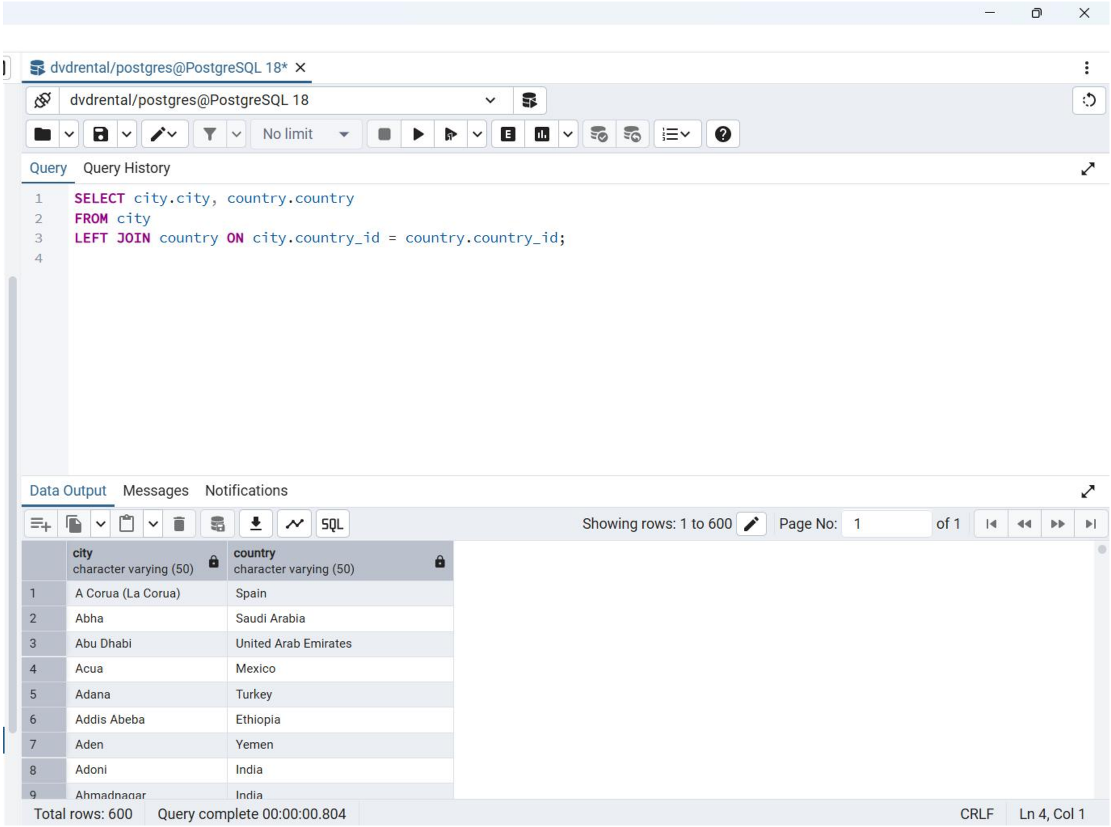
Assignment 10: DVDRental JOIN Queries

This assignment focuses on practicing **LEFT JOIN**, **RIGHT JOIN**, and **FULL JOIN** operations using the DVDRental sample database. The goal is to understand how relational tables connect through foreign keys and how different JOIN types affect the result set.

Query 1

Description: Retrieve the city and country names together by joining the city and country tables. This query demonstrates how location data is linked through the country_id field and how a LEFT JOIN keeps all rows from the left table.


dvdrental/postgres@PostgreSQL 18*
dvdrental/postgres@PostgreSQL 18
No limit
Query
Query History
Data Output
Messages
Notifications
SQL

```sql
SELECT city.city, country.country
FROM city
LEFT JOIN country ON city.country_id = country.country_id;
```

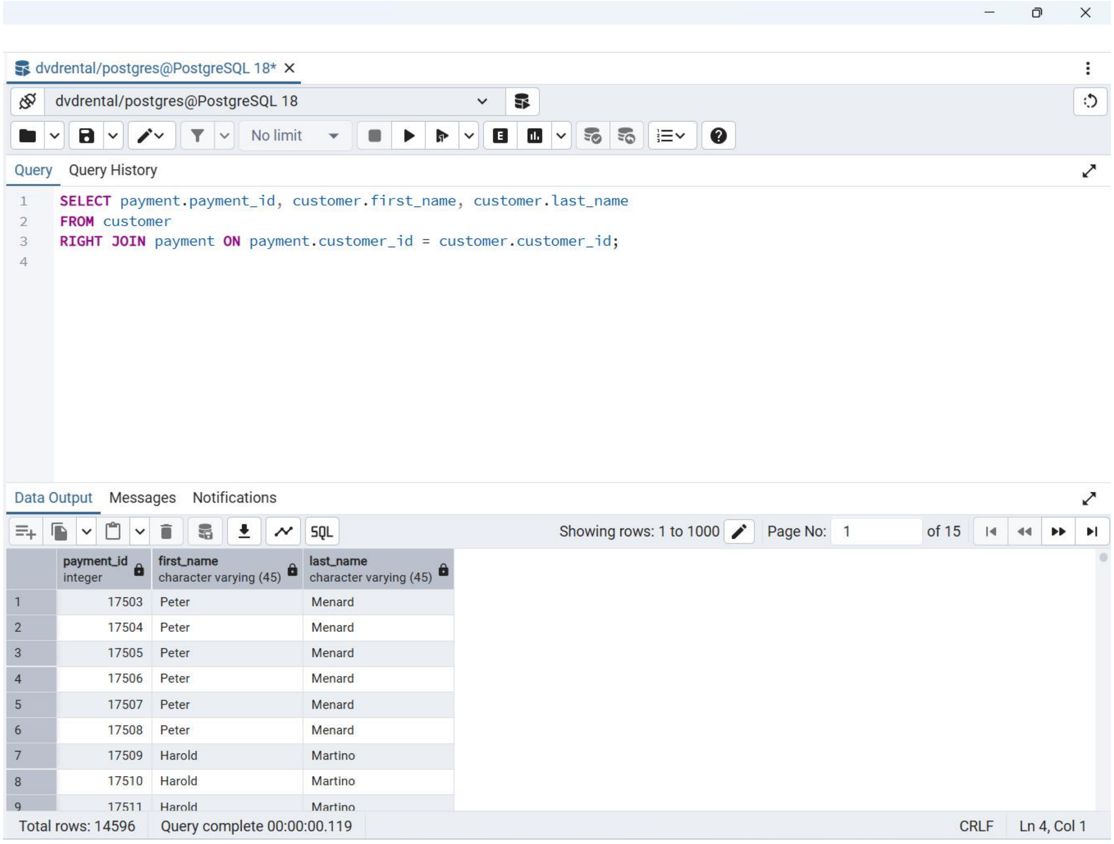
Showing rows: 1 to 600   Page No: 1 of 1

	city character varying (50)	country character varying (50)
1	A Corua (La Corua)	Spain
2	Abha	Saudi Arabia
3	Abu Dhabi	United Arab Emirates
4	Acua	Mexico
5	Adana	Turkey
6	Addis Abeba	Ethiopia
7	Aden	Yemen
8	Adoni	India
9	Ahmadnagar	India

Total rows: 600   Query complete 00:00:00.804   CRLF   Ln 4, Col 1

Query 2

Description: The payment_id along with the customer’s first_name and last_name. This query shows how RIGHT JOIN ensures that all payment records appear, even if some payments are not associated with a customer.


dvdrental/postgres@PostgreSQL 18*
dvdrental/postgres@PostgreSQL 18
Query
Query History
Data Output
Messages
Notifications
SQL

No limit

```sql
SELECT payment.payment_id, customer.first_name, customer.last_name
FROM customer
RIGHT JOIN payment ON payment.customer_id = customer.customer_id;
```

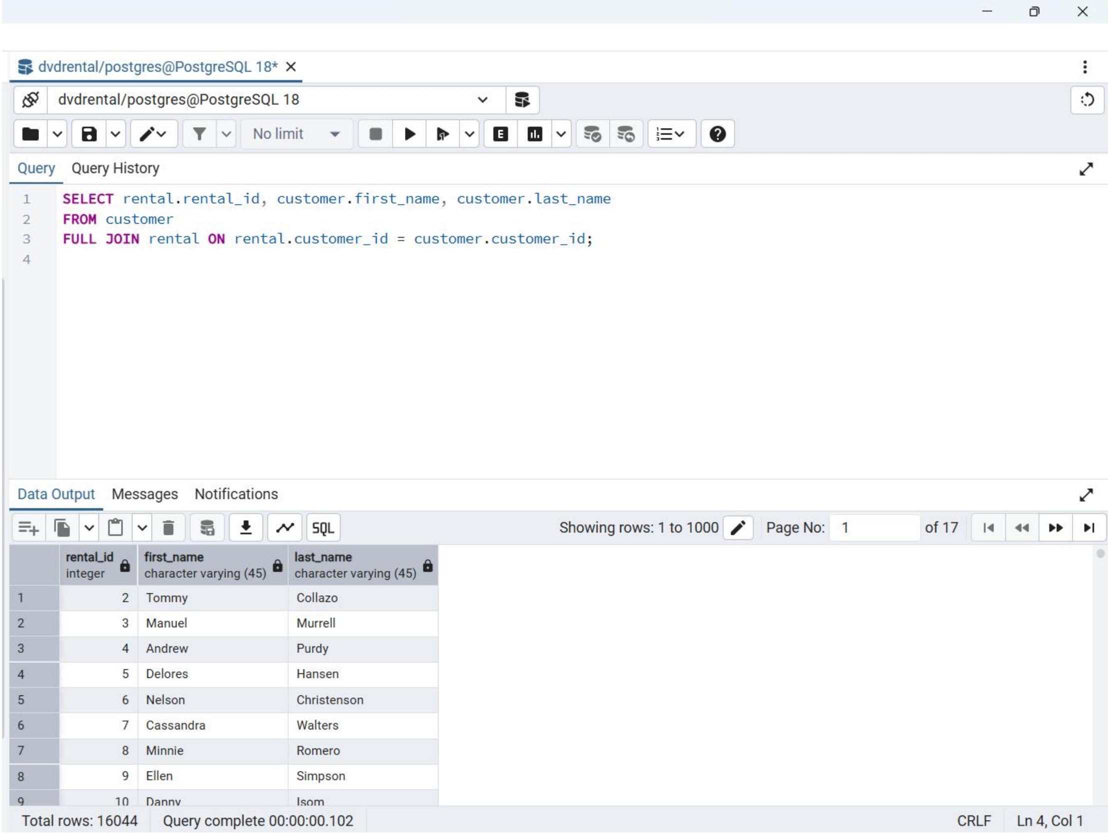
Showing rows: 1 to 1000 Page No: 1 of 15

	payment_id integer	first_name character varying (45)	last_name character varying (45)
1	17503	Peter	Menard
2	17504	Peter	Menard
3	17505	Peter	Menard
4	17506	Peter	Menard
5	17507	Peter	Menard
6	17508	Peter	Menard
7	17509	Harold	Martino
8	17510	Harold	Martino
9	17511	Harold	Martino

Total rows: 14596 Query complete 00:00:00.119 CRLF Ln 4, Col 1

Query 3

Description: The rental_id along with the customer’s first_name and last_name. This query demonstrates how FULL JOIN returns all customers and all rentals, matching them where possible and showing unmatched rows from both sides.



```
SELECT rental.rental_id, customer.first_name, customer.last_name
FROM customer
FULL JOIN rental ON rental.customer_id = customer.customer_id;
```

	rental_id integer	first_name character varying (45)	last_name character varying (45)
1	2	Tommy	Collazo
2	3	Manuel	Murrell
3	4	Andrew	Purdy
4	5	Delores	Hansen
5	6	Nelson	Christenson
6	7	Cassandra	Walters
7	8	Minnie	Romero
8	9	Ellen	Simpson
9	10	Danny	Isom

Total rows: 16044 Query complete 00:00:00.102