Query Editor | Query History

```sql
-- CASE, GROUP BY & JOIN
-- Return the count of employees per coffeeshop in each pay category
select sh.coffeeshop_name,
COUNT(CASE WHEN emp.salary < 20000 THEN emp.employee_id ELSE NULL END) AS low_pay_number_of_employees
COUNT(CASE WHEN emp.salary >= 20000 AND emp.salary <= 50000 THEN emp.employee_id ELSE NULL END) AS
medium_pay_number_of_employees,
COUNT(CASE WHEN emp.salary > 50000 THEN emp.employee_id ELSE NULL END) AS
high_pay_number_of_employees
from employees emp
inner join shops sh on emp.coffeeshop_id = sh.coffeeshop_id
group by sh.coffeeshop_name
```

Data Output | Explain | Messages | Notifications

	coffeeshop_name character varying (50)	low_pay_number_of_employees bigint	medium_pay_number_of_employees bigint	high_pay_number_of_employees bigint
1	Early Rise	32	102	52
2	Ancient Bean	33	118	63
3	Common Grounds	31	95	61
4	Trembling Cup	51	98	54
5	Urban Grind	47	105	58

Query Editor | Query History

```sql
-- CASE, GROUP BY & SUBQUERY
-- Return the count of employees in each pay category I created within the CASE statement
SELECT a.pay_category, COUNT(employee_id) AS number_of_employees FROM
(select employee_id, first_name, last_name, salary,
CASE
    WHEN salary < 20000 THEN 'low_pay'
    WHEN salary BETWEEN 20000 AND 50000 THEN 'medium_pay'
    WHEN salary > 50000 THEN 'high_pay'
ELSE 'check_logic'
END AS pay_category
FROM employees
ORDER BY salary DESC) a
GROUP BY a.pay_category
```

Data Output | Explain | Messages | Notifications

	pay_category text	number_of_employees bigint
1	low_pay	194
2	high_pay	288
3	medium_pay	518

Query Editor | Query History

```sql
-- CASE, GROUP BY & COMMON TABLE EXPRESSION
-- Return the count of employees in each pay category
with CTE as(select employee_id, first_name, last_name,
CASE
    WHEN salary < 20000 then 'low_pay'
    WHEN salary between 20000 and 50000 then 'medium_pay'
    WHEN salary > 50000 then 'high_pay'
    ELSE 'check_logic'
END AS pay_category
from employees
order by salary DESC)

select count(employee_id) AS number_of_employees, pay_category from CTE
group by pay_category
```

Data Output | Explain | Messages | Notifications

	number_of_employees bigint	pay_category text
1	194	low_pay
2	288	high_pay
3	518	medium_pay

Query Editor | Query History

```sql
-- UNION (to stack data on top of each other, so rather than joining data horizontally, I will
-- just be stacking data vertically)
-- Return all cities and countries
-- UNION removes duplicates
SELECT city FROM locations
UNION
SELECT country FROM locations
```

Data Output | Explain | Messages | Notifications

	city character varying (50)
1	London
2	United States
3	New York
4	United Kingdom
5	Los Angeles

```sql
-- UNION ALL keeps duplicates
SELECT city FROM locations
UNION ALL
SELECT country FROM locations
```

Data Output | Explain | Messages | Notifications

	city character varying (50)
1	Los Angeles
2	New York
3	London
4	United States
5	United States
6	United Kingdom

Query Editor | Query History

```sql
-- Return all coffeeshop names, cities and countries
SELECT coffeeshop_name FROM shops
UNION
SELECT city FROM locations
UNION
SELECT country FROM locations
```

Data Output | Explain | Messages | Notifications

	coffeeshop_name character varying (50)
1	United States
2	Common Grounds
3	New York
4	United Kingdom
5	Trembling Cup
6	Los Angeles
7	London
8	Early Rise
9	Ancient Bean
10	Urban Grind