Names: abijuru jonathan

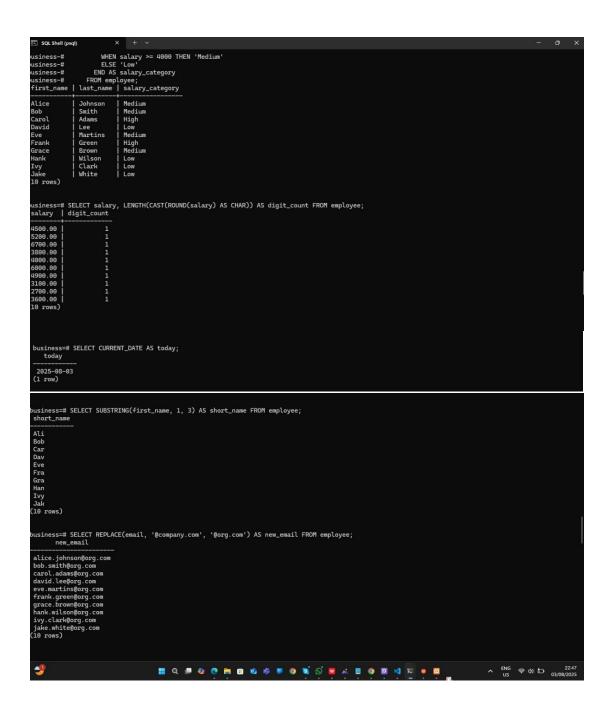
ld 29071

Note: some screenshot represent 2 queries



```
LINE 1: ...CAT(first_name, ' ', last_name) AS full_name FROM employees;
 business=# SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM employee;
  full_name
 Alice Johnson
Bob Smith
Carol Adams
David Lee
Eve Martins
Frank Green
Grace Brown
Hank Wilson
Ivy Clark
Jake White
(10 rows)
   business=# SELECT LOWER(first_name) AS lower_first, LOWER(last_name) AS lower_last FROM employee;
lower_first | lower_last
                                   johnson
smith
adams
lee
martins
green
brown
wilson
clark
white
    alice
bob
carol
david
    eve
frank
     grace
hank
 ivy
jake
(10 rows)
RROR: function substring_index(character varying, unknown, integer) does not exist INE 1: SELECT SUBSTRING(SUBSTRING_INDEX(email, '.', -2), '@', 1) AS...
INT: No function matches the given name and argument types. You might need to add explicit type casts.
usiness=# SELECT CONCAT(UPPER(last_name), ', ', first_name) AS formatted_name FROM employees;
RROR: relation "employees" does not exist
INE 1: ...t_name), ', ', first_name) AS formatted_name FROM employees;
 usiness=# SELECT CONCAT(UPPER(last_name), ', ', first_name) AS formatted_name FROM employee;
formatted_name
JOHNSON, Alice
SMITH, Bob
ADAMS, Carol
LEE, David
MARTINS, Eve
GREEN, Frank
BROWN, Grace
WILSON, Hank
CLARK, IVy
WHITE, Jake
10 rows)
usiness=# SELECT
usiness=# CONCAT(first_name, ' ', last_name,
usiness(# CASE
usiness(# WHEN p.end_date IS NULL THEN ' (Active)'
usiness(# ELSE ''
usiness(# EDN AS status_name
usiness=# FROM employee e
usiness=# JOIN employee_projects ep ON e.employee_id = ep.employee_id
usiness=# JOIN project pON ep.project_id = p.project_id;
RROR: relation 'employee_projects' does not exist
INE 8: JOIN employee_projects ep ON e.employee_id = ep.employee...
                                                                                                                                                                                                                                                                                                A ENG (♣ 4) 20 23:11
US (♣ 4) 20 03/08/2025
— ② >
                                                                              SQL Shell (psql)
                                   END) AS status_name
FROM employee a
JOIN employee_project ep ON e.employee_id = ep.employee_id
JOIN project p ON ep.project_id = p.project_id;
 business(#
business-#
business-#
business-#
            status_name
 Alice Johnson
Bob Smith (Active)
Carol Adams
David Lee
Eve Martins (Active)
Frank Green
Grace Brown
Hank Wilson
Tuy Clark (Active)
Jake White
(10 rows)
   business=# SELECT first_name, last_name, ROUND(salary) AS rounded_salary FROM employee;
first_name | last_name | rounded_salary
                                Johnson
Smith
Adams
Lee
Martins
Green
Brown
Wilson
Clark
    Alice
Bob
Carol
David
Eve
Frank
Grace
Hank
 Ivy
Jake
(10 rows)
```

```
business=# SELECT first_name, last_name, salary
business=# FROM employee
business=# WHERE MOO(ROUND(salary), 2) = 0;
first_name | last_name | salary
                                      Johnson
Smith
Adams
Lee
Martins
Green
Brown
Wilson
Clark
White
                                                                      | 4500.00
| 5200.00
| 6700.00
| 3800.00
| 4900.00
| 4900.00
| 4900.00
| 3100.00
| 2700.00
| 3600.00
   Alice
Bob
Carol
David
   Eve
Frank
Grace
Hank
business=# SELECT project_name, DATEDIFF(end_date, start_date) AS duration_days business-# FROM project business-# WHERE end_date IS NOT NULL; ERROR: function datediff(date, date) does not exist LINE 1: SELECT project_name, DATEDIFF(end_date, start_date) AS durat...
  pusiness-# rkom employee e., employee ez
business-# WHERE e1.employee_id = 101 AND e2.employee_id = 103;
salary_difference
                               2200.00
(1 row)
  business=# SELECT first_name, last_name, salary, salary * POWER(1.10, 1) AS raised_salary FROM employee;
first_name | last_name | salary | raised_salary _____
                                                                         Alice
Bob
Carol
David
Eve
Frank
Grace
Hank
Ivy
Jake
(10 rows)
                                      Johnson
Smith
Adams
Lee
Martins
Green
Brown
Wilson
Clark
White
 business=#|
   SQL Shell (psql)
  business=# SELECT salary, CEIL(salary) AS ceiling, FLOOR(salary) AS floor FROM employee;
salary | ceiling | floor
   4500.00
5200.00
6700.00
3800.00
4000.00
6000.00
4900.00
3100.00
2700.00
3600.00
                                                              4500
5200
6700
3800
4000
6000
4900
3100
2700
3600
                                         4500
5200
6700
3800
4000
6000
4900
3100
2700
3600
business=# SELECT first_name, last_name,
business=# CASE
business=# WHEN salary >= 6000 THEN 'High'
business=# WHEN salary >= 4000 THEN 'Medium'
business=# ELSE 'Low'
business=# FROM employee;
first_name | last_name | salary_category
                                       Johnson
Smith
Adams
Lee
Martins
Green
Brown
Wilson
Clark
White
                                                                       Medium
Medium
High
Low
Medium
High
High
Low
Low
Low
Low
Low
   Alice
Bob
Carol
David
Eve
Frank
Grace
Hank
Ivy
```





```
business-#
                     WHEN salary >= 4000 THEN 'Medium'
business-#
                     ELSE 'Low'
                   END AS salary_label
business-#
business-#
                 FROM employee;
 first_name | last_name | salary_label
                           Medium
  Alice
               Johnson
 Bob
               Smith
                           Medium
               Adams
 Carol
                           High
 David
               Lee
                           Low
                           Medium
 Eve
               Martins
                           High
 Frank
               Green
 Grace
               Brown
                           Medium
 Hank
               Wilson
                           Low
 Ivv
               Clark
                           Low
 Jake
               White
                           Low
 (10 rows)
business=#
Rop
              Smith
                           Medium
Carol
              Adams
                          High
David
              Lee
                          Low
              Martins
                          Medium
Eve
Frank
              Green
                          High
              Brown
                          Medium
Grace
Hank
              Wilson
                           Low
              Clark
                           Low
Ivy
              White
Jake
                          Low
(10 rows)
business=# SELECT first_name, last_name, COALESCE(email, 'No Email') AS
email_address
business-#
                FROM employee;
first_name |
              last_name |
                                 email_address
Alice
              Johnson
                           alice.johnson@company.com
              Smith
Bob
                           bob.smith@company.com
Carol
              Adams
                           carol.adams@company.com
David
              Lee
                           david.lee@company.com
Eve
              Martins
                           eve.martins@company.com
Frank
              Green
                           frank.green@company.com
Grace
              Brown
                           grace.brown@company.com
Hank
              Wilson
                           hank.wilson@company.com
              Clark
                           ivy.clark@company.com
Ivv
Jake
              White
                           jake.white@company.com
(10 rows)
business=#
```

```
business=# SELECT first_name, last_name,
business-#
                  CASE
business-#
                    WHEN hire_date < '2015-01-01' THEN 'Veteran'
                    ELSE 'New'
business-#
                  END AS experience_status
business-#
business-#
                FROM employee;
first_name | last_name | experience_status
Alice
              Johnson
                          New
Bob
              Smith
                          New
              Adams
Carol
                          Veteran
David
              Lee
                          New
Eve
             Martins
                          New
Frank
            Green
                          New
Grace
             Brown
                          Veteran
Hank
             Wilson
                         Veteran
              Clark
                          New
Ivy
Jake
            White
                         New
(10 rows)
business=# +--
business-#
         page "Notes for Windows users" for details.
Type "help" for help.
postgres=# \c business;
You are now connected to database "business" as user "postgres".
business=# SELECT first_name, last_name, COALESCE(salary, 3000) AS salar
y_defaulted
business-#
                FROM employee;
first_name | last_name | salary_defaulted
Alice
             Johnson
                                   4500.00
Bob
             Smith
                                   5200.00
Carol
             Adams
                                   6700.00
David
             Lee
                                   3800.00
Eve
             Martins
                                  4000.00
Frank
                                   6000.00
             Green
Grace
             Brown
                                  4900.00
Hank
             Wilson
                                   3100.00
 Ivy
             Clark
                                   2700.00
 Jake
             White
                                   3600.00
(10 rows)
business=#
```

```
'IT'
business-#
                    WHEN department_name = 'Human Resources' THEN 'HR'
                    ELSE 'Other'
business-#
business-#
                  END AS department_category
business-#
                FROM employee
business-#
                JOIN department ON employee.department_id = department.d
epartment_id;
first_name | last_name | department_category
Alice
              Johnson
                          HR
Carol
              Adams
                          Other
Eve
              Martins
                          IT
Bob
              Smith
                          IT
 David
              Lee
                          Other
Grace
              Brown
                          Other
Hank
              Wilson
                          Other
                          Other
Jake
              White
              Green
                          Other
Frank
 Ivy
             Clark
                         | Other
(10 rows)
business=# SELECT e.first_name, e.last_name,
business-#
                  CASE
business-#
                    WHEN ep.employee_id IS NULL THEN 'Unassigned'
                    ELSE 'Assigned'
business-#
                  END AS assignment_status
business-#
                FROM employee e
business-#
                LEFT JOIN employee_project ep ON e.employee_id = ep.empl
business-#
oyee_id;
 first_name | last_name | assignment_status
 Alice
              Johnson
                          Assigned
 Bob
              Smith
                          Assigned
 Carol
              Adams
                          Assigned
 David
              Lee
                          Assigned
              Martins
 Eve
                          Assigned
 Frank
                          Assigned
              Green
 Grace
              Brown
                          Assigned
 Hank
              Wilson
                          Assigned
 Ivy
              Clark
                          Assigned
 Jake
            | White
                         Assigned
(10 rows)
```

```
business=# SELECT first_name, last_name,
business-#
                  CASE
                    WHEN salary >= 6000 THEN '30% Tax Band'
business-#
business-#
                    WHEN salary >= 4000 THEN '20% Tax Band'
                    ELSE '10% Tax Band'
business-#
business-#
                 END AS tax_band
business-#
               FROM employee;
 first_name |
              last_name
                             tax_band
 Alice
                           20% Tax Band
              Johnson
                           20% Tax Band
 Bob
              Smith
 Carol
              Adams
                           30% Tax Band
 David
              Lee
                           10% Tax Band
 Eve
              Martins
                           20% Tax Band
 Frank
                           30% Tax Band
              Green
                           20% Tax Band
 Grace
              Brown
                           10% Tax Band
 Hank
              Wilson
 Ivy
              Clark
                           10% Tax Band
 Jake
              White
                          10% Tax Band
(10 rows)
business=# SELECT employee_id, first_name,
business-#
                  CASE
business-#
                    WHEN MOD(employee_id, 2) = 0 THEN 'Even ID'
business-#
                    ELSE 'Odd ID'
                  END AS id_parity
business-#
business-#
               FROM employee;
 employee_id |
               first_name | id_parity
         101
               Alice
                             Odd ID
         102
               Bob
                             Even ID
         103
               Carol
                             Odd ID
         104
               David
                             Even ID
                            Odd ID
         105
               Eve
         106
               Frank
                             Even ID
                             Odd ID
         107
               Grace
                             Even ID
         108
               Hank
         109
                             Odd ID
               Ivy
         110
               Jake
                            Even ID
(10 rows)
```

```
business=# SELECT COALESCE(CONCAT(first_name, ' ', last_name), 'Unnamed
 Employee') AS display_name from employee;
 display_name
  Alice Johnson
 Bob Smith
 Carol Adams
 David Lee
 Eve Martins
  Frank Green
 Grace Brown
 Hank Wilson
  Ivy Clark
  Jake White
 (10 rows)
usiness=# SELECT email,
usiness-#
               CASE
usiness-#
                   WHEN UPPER(email) LIKE '%TEST%' THEN 'Dummy Account'
usiness-#
                   ELSE 'Real Account'
usiness-#
                 END AS account_type
usiness-#
               FROM employee;
         email
                           account_type
alice.johnson@company.com | Real Account
oob.smith@company.com
                           | Real Account
carol.adams@company.com
                           | Real Account
david.lee@company.com
                           | Real Account
                           | Real Account
eve.martins@company.com
                          Real Account
Real Account
Real Account
Real Account
frank.green@company.com
grace.brown@company.com
nank.wilson@company.com
ivy.clark@company.com
                           | Real Account
jake.white@company.com
LO rows)
usiness=#
```

```
business=# SELECT first_name, last_name,
                 CASE
business-#
business-#
                   WHEN EXTRACT(month FROM hire_date) >= 2015 THEN 'Sen
ior'
                   WHEN EXTRACT(YEAR FROM hire_date) <= 2020 THEN 'Mid-
business-#
Level'
                   ELSE 'Junior'
business-#
                 END AS seniority
business-#
business-#
                FROM employee;
first_name | last_name | seniority
Alice
             Johnson
                         Mid-Level
                         Mid-Level
Bob
              Smith
Carol
             Adams
                         Mid-Level
David
             Lee
                         Mid-Level
Eve
             Martins
                         Mid-Level
Frank
             Green
                         Mid-Level
                         Mid-Level
Grace
             Brown
Hank
             Wilson
                         Mid-Level
             Clark
                         Junior
Ivy
             White
Jake
                        Junior
(10 rows)
business=#
 business=# SELECT first_name, last_name,
                   EXTRACT(MONTH FROM hire_date) AS hire_month,
 business-#
 business-#
                   CASE
                     WHEN EXTRACT(MONTH FROM hire_date) = EXTRACT(MONTH F
 business-#
 ROM CURRENT_DATE)
 business-#
                     THEN 'Anniversary Month'
 business-#
                     ELSE 'Not Anniversary Month'
 business-#
                   END AS anniversary_status
 business-# FROM employee;
 first_name | last_name | hire_month | anniversary_status
  Alice
               Johnson
                                    3 | Not Anniversary Month
  Bob
              Smith
                                    6 |
                                        Not Anniversary Month
  Carol
              Adams
                                        Not Anniversary Month
                                    9 |
  David
              Lee
                                   1 |
                                        Not Anniversary Month
  Eve
              Martins
                                        Not Anniversary Month
                                   12
  Frank
                                   7
                                        Not Anniversary Month
              Green
  Grace
              Brown
                                   11
                                        Not Anniversary Month
  Hank
              Wilson
                                   2
                                        Not Anniversary Month
                                    8 j
  Ivy
               Clark
                                        Anniversary Month
                                    5 | Not Anniversary Month
  Jake
             White
 (10 rows)
 business=#
 business=#
```