-> FROM employees;

Q1 SELECT CONCAT('28892 - ', first_name, ' ', last_name) AS full_name

Q2. SELECT CONCAT('28892 - ', LOWER(first_name)) AS lower_name

-> FROM employees;

```
+-----+
| lower_name |
+-----+
| 28892 - alice |
| 28892 - bob |
| 28892 - carol |
| 28892 - david |
```

```
| 28892 - eve |
| 28892 - frank |
| 28892 - grace |
| 28892 - hank |
| 28892 - ivy |
| 28892 - jake |
+----+
Q3. SELECT CONCAT('28892 - ', SUBSTRING(first_name, 1, 3)) AS short_name
  -> FROM employees;
+----+
| short_name |
+----+
| 28892 - Ali |
| 28892 - Bob |
| 28892 - Car |
| 28892 - Dav |
| 28892 - Eve |
| 28892 - Fra |
| 28892 - Gra |
| 28892 - Han |
| 28892 - Ivy |
| 28892 - Jak |
+----+
```

10 rows in set (0.003 sec)

Q4. UPDATE employees

- -> SET email = REPLACE(email, '@company.com', '@org.com')
- -> WHERE email LIKE '%@company.com';

Query OK, 10 rows affected (0.014 sec)

Rows matched: 10 Changed: 10 Warnings: 0

MariaDB [employee_management]> select * from employees;				
++				
employee_id first_name last_name email				
++				
101 Alice Johnson alice.johnson@org.com 2015-03-15 4500.00 1				
102 Bob Smith bob.smith@org.com 2018-06-23 5200.00 3				
103 Carol Adams carol.adams@org.com 2012-09-10 6700.00 2				
104 David Lee david.lee@org.com 2020-01-05 3800.00 4				
105 Eve Martins eve.martins@org.com 2019-12-11 4000.00 3				
106 Frank Green frank.green@org.com 2017-07-08 6000.00 8				
107 Grace Brown grace.brown@org.com 2014-11-02 4900.00 5				
108 Hank Wilson hank.wilson@org.com 2013-02-17 3100.00 6				
109 Ivy Clark ivy.clark@org.com 2021-08-30 2700.00 9				
110 Jake White jake.white@org.com 2022-05-19 3600.00 7				
++				
10 rows in set (0.000 sec)				

Q5. SELECT employee_id,

- -> CONCAT('28892 ', TRIM(first_name)) AS first_name,
- -> CONCAT('28892 ', TRIM(last_name)) AS last_name
- -> FROM employees;

6. SELECT employee_id, first_name, last_name,

-> CONCAT('28892 - ', LENGTH(CONCAT(first_name, ' ', last_name))) AS name_length

-> FROM employees;

```
+-----+
| employee_id | first_name | last_name | name_length |
+-----+
| 101 | Alice | Johnson | 28892 - 13 |
| 102 | Bob | Smith | 28892 - 9 |
| 103 | Carol | Adams | 28892 - 11 |
| 104 | David | Lee | 28892 - 9 |
```

10 rows in set (0.003 sec)

Q7 SELECT employee_id, email, INSTR(email, '@') FROM employees;

```
-----+
| employee_id | email | INSTR(email, '@') |
    101 | alice.johnson@campany.com |
                                    14 |
    102 | bob.smith@campany.com |
                                    10 |
    103 | carol.adams@campany.com |
                                   12 |
    104 | david.lee@campany.com |
                                   10 |
    105 | eve.martins@campany.com |
                                    12 |
    106 | frank.green@campany.com |
                                    12 |
I
    107 | grace.brown@campany.com |
                                    12 |
    108 | hank.wilson@campany.com |
                                    12 |
    109 | ivy.clark@campany.com |
                                  10 |
    110 | jake.white@campany.com |
                                    11 |
+----+
```

10 rows in set (0.002 sec)

Q8. SELECT employee_id, first_name, last_name,

- -> CONCAT('28892 ',
- -> CASE
- -> WHEN first_name IN ('Alice', 'Carol', 'Eve', 'Grace', 'Ivy') THEN 'Ms. '
- -> WHEN first_name IN ('Bob', 'David', 'Frank', 'Hank', 'Jake') THEN 'Mr. '

```
ELSE"
 ->
        END,
        first_name, '', last_name) AS titled_name
 -> FROM employees;
| employee_id | first_name | last_name | titled_name
  -----+
    101 | Alice
                | Johnson | 28892 - Ms. Alice Johnson |
    102 | Bob
                | Smith | 28892 - Mr. Bob Smith |
    103 | Carol
                | Adams | 28892 - Ms. Carol Adams |
    104 | David
                | Lee | 28892 - Mr. David Lee |
    105 | Eve
                | Martins | 28892 - Ms. Eve Martins |
    106 | Frank
                Green | 28892 - Mr. Frank Green |
    107 | Grace
                Brown | 28892 - Ms. Grace Brown |
    108 | Hank
                 | Wilson | 28892 - Mr. Hank Wilson |
    109 | Ivy
               | Clark | 28892 - Ms. Ivy Clark |
    110 | Jake | White | 28892 - Mr. Jake White |
   -----+
10 rows in set (0.008 sec)
Q9. SELECT CONCAT('28892 - ', UPPER(project_name)) AS project_name_upper
 -> FROM projects;
| project_name_upper |
| 28892 - HR REVAMP
| 28892 - FINANCE AUTOMATION
| 28892 - IT INFRASTRUCTURE UPGRADE |
| 28892 - MARKETING BLITZ 2025
| 28892 - LEGAL COMPLIANCE
                             I
```

```
| 28892 - CUSTOMER PORTAL
| 28892 - SALES BOOSTER
| 28892 - R&D PILOT
| 28892 - PROCUREMENT TRACKER
| 28892 - OPERATIONS STREAMLINE
+----+
10 rows in set (0.004 sec)
Q10. select project_name,replace (project_name, '-',") from projects;
| project_name | replace (project_name, '-','') |
HR Revamp HR Revamp
| Finance Automation | Finance Automation
| IT Infrastructure Upgrade | IT Infrastructure Upgrade
| Marketing Blitz 2025 | Marketing Blitz 2025
| Legal Compliance | Legal Compliance
| Customer Portal | Customer Portal
| Sales Booster
                 | Sales Booster
| R&D Pilot
                 | R&D Pilot
| Procurement Tracker | Procurement Tracker
| Operations Streamline | Operations Streamline
+-----+
10 rows in set (0.000 sec)
Q11. SELECT
 -> e.employee_id,
 -> CONCAT('Emp: ', e.first_name, ' ', e.last_name, ' (', d.department_name, ')') AS employee_label
 -> FROM
    employees e
 -> JOIN
```

department d ON e.department_id = d.department_id; | employee_id | employee_label 101 | Emp: Alice Johnson (Human Resources) 102 | Emp: Bob Smith (Information Technology) | 103 | Emp: Carol Adams (Finance) 104 | Emp: David Lee (Marketing) 105 | Emp: Eve Martins (Information Technology) | 106 | Emp: Frank Green (Sales) 107 | Emp: Grace Brown (Legal) 108 | Emp: Hank Wilson (Operations) 109 | Emp: Ivy Clark (Research and Development) | 110 | Emp: Jake White (Customer Service) 10 rows in set (0.010 sec) Q12. select email, length (email) from employees; +----+ | email | length(email) | +----+ | alice.johnson@company.com | 25 | | bob.smith@company.com | 21 | carol.adams@company.com 23 | | david.lee@company.com | 21 | | eve.martins@company.com | 23 | | frank.green@company.com | 23 | grace.brown@company.com 23 | | hank.wilson@company.com | 23 |

| ivy.clark@company.com |

21 |

```
| jake.white@company.com |
+----+
10 rows in set (0.001 sec)
13. SELECT
 -> employee_id,
     email,
     CONCAT('28892 - ', SUBSTRING_INDEX(SUBSTRING_INDEX(email, '@', 1), '.', -1)) AS
last_name_extracted
 -> FROM
 -> employees;
+-----+
| employee_id | email
                        | last_name_extracted |
 -----+
    101 | alice.johnson@campany.com | 28892 - johnson |
    102 | bob.smith@campany.com | 28892 - smith
    103 | carol.adams@campany.com | 28892 - adams
    104 | david.lee@campany.com | 28892 - lee
    105 | eve.martins@campany.com | 28892 - martins
    106 | frank.green@campany.com | 28892 - green
    107 | grace.brown@campany.com | 28892 - brown
    108 | hank.wilson@campany.com | 28892 - wilson
    109 | ivy.clark@campany.com | 28892 - clark
    110 | jake.white@campany.com | 28892 - white
+----+
10 rows in set (0.002 sec)
Q14. SELECT employee_id,
      CONCAT('28892 - ', UPPER(last_name), ', ', first_name) AS formatted_name
 -> FROM employees;
+----+
```

```
| employee_id | formatted_name
+----+
     101 | 28892 - JOHNSON, Alice |
I
     102 | 28892 - SMITH, Bob |
     103 | 28892 - ADAMS, Carol |
ı
     104 | 28892 - LEE, David |
105 | 28892 - MARTINS, Eve |
I
     106 | 28892 - GREEN, Frank |
Ī
     107 | 28892 - BROWN, Grace |
П
     108 | 28892 - WILSON, Hank |
П
     109 | 28892 - CLARK, Ivy |
     110 | 28892 - WHITE, Jake |
10 rows in set (0.001 sec)
15. SELECT CONCAT('28892 - ', first_name, ' ', last_name,
  ->
       IF(
 ->
         employee_id IN (
           SELECT employee_id
 ->
           FROM employee_projects ep
           JOIN projects p ON ep.project_id = p.project_id
 ->
           WHERE p.end_date IS NULL OR p.end_date > CURDATE()
         ),
  ->
         ' (Active)', "
 ->
       )) AS name_with_status
 -> FROM employees;
| name_with_status
                         1
28892 - Alice Johnson
```

```
| 28892 - Bob Smith (Active) |
| 28892 - Carol Adams
| 28892 - David Lee
| 28892 - Eve Martins (Active) |
| 28892 - Frank Green
| 28892 - Grace Brown
| 28892 - Hank Wilson
| 28892 - Ivy Clark
| 28892 - Jake White
10 rows in set (0.031 sec)
16. MariaDB [employee_management]> SELECT
  -> employee_id,
    first_name,
     last_name,
      salary,
     ROUND(salary) AS rounded_salary
  -> FROM
     employees;
| employee_id | first_name | last_name | salary | rounded_salary |
  -----+
     101 | Alice
                 | Johnson | 4500.00 |
                                           4500 |
     102 | Bob
                 | Smith | 5200.00 |
                                          5200 |
     103 | Carol
                 | Adams | 6700.00 |
                                           6700 |
     104 | David
                  Lee
                          | 3800.00 |
                                         3800 |
     105 | Eve
                 | Martins | 4000.00 |
                                          4000 |
     106 | Frank
                  | Green | 6000.00 |
                                           6000 |
     107 | Grace
                  | Brown | 4900.00 |
                                           4900 |
```

```
108 | Hank
                | Wilson | 3100.00 |
                                       3100 |
     109 | Ivy
                | Clark | 2700.00 |
                                        2700 |
     110 | Jake | White | 3600.00 |
                                         3600 |
10 rows in set (0.001 sec)
17. SELECT
```

- -> employee_id,
- -> first_name,
- -> last_name,
- -> salary
- -> FROM
- -> employees
- -> WHERE
- -> MOD(ROUND(salary), 2) = 0;

-----+

| employee_id | first_name | last_name | salary | +----+ 101 | Alice | Johnson | 4500.00 | 102 | Bob | Smith | 5200.00 | 103 | Carol | Adams | 6700.00 | 104 | David | Lee | 3800.00 | 105 | Eve | Martins | 4000.00 | 106 | Frank | Green | 6000.00 | 107 | Grace | Brown | 4900.00 | 108 | Hank | Wilson | 3100.00 | 109 | Ivy | Clark | 2700.00 | 110 | Jake | White | 3600.00 |

10 rows in set (0.001 sec)

-> project_id,			
-> project_name,			
-> DATEDIFF(end_date, start_date) AS duration_days			
-> FROM			
-> projects			
-> WHERE			
-> end_date IS NOT NULL;			
++			
project_id project_name duration_days			
++			
201 HR Revamp 364			
202 Finance Automation 350			
204 Marketing Blitz 2025 149			
205 Legal Compliance 184			
206 Customer Portal 364			
207 Sales Booster 364			
209 Procurement Tracker 245			
210 Operations Streamline 365			
++			
8 rows in set (0.003 sec)			
19. SELECT			
-> ABS(
-> (SELECT salary FROM employees WHERE employee_id = 101)			
-> (SELECT salary FROM employees WHERE employee_id = 102)			
->) AS salary_diff;			
++			
salary_diff			
++			

```
700.00 |
+----+
1 row in set (0.004 sec)
20.
MariaDB [employee_management] > SELECT
 -> employee_id,
 -> salary,
 -> salary * POWER(1.10, 1) AS increased_salary
 -> FROM
 -> employees;
+-----+
| employee_id | salary | increased_salary |
+----+
    101 | 4500.00 | 4950 |
    102 | 5200.00 | 5720.000000000001 |
    103 | 6700.00 | 7370.000000000001 |
    104 | 3800.00 |
                   4180 |
    105 | 4000.00 | 4400 |
     106 | 6000.00 | 6600.000000000001 |
    107 | 4900.00 |
                        5390 |
     108 | 3100.00 | 3410.0000000000005 |
     109 | 2700.00 | 2970.0000000000005 |
     110 | 3600.00 | 3960.0000000000005 |
10 rows in set (0.003 sec)
21. SELECT
 -> employee_id,
 -> FLOOR(RAND() * 10000) AS random_test_id
 -> FROM
```

-> employees;

+----+

| employee_id | random_test_id |

+-----+

| 101 | 4028 |

| 102 | 3300 |

| 103 | 4415 |

| 104 | 2179 |

| 105 | 7647 |

| 106 | 1701 |

| 107 | 5563 |

| 108 | 2715 |

| 109 | 6883 |

110 | 6273 |

+----+

10 rows in set (0.002 sec)

22. SELECT

- -> employee_id,
- -> salary,
- -> CEIL(salary) AS salary_ceil,
- -> FLOOR(salary) AS salary_floor
- -> FROM
- -> employees;

+-----+

| employee_id | salary | salary_ceil | salary_floor |

+----+

| 101 | 4500.00 | 4500 | 4500 |

| 102 | 5200.00 | 5200 | 5200 |

| 103 | 6700.00 | 6700 | 6700 |

```
104 | 3800.00 |
                       3800 |
                                 3800 |
                                 4000 |
     105 | 4000.00 |
                       4000 |
     106 | 6000.00 |
                       6000 |
                                 6000 |
     107 | 4900.00 |
                       4900 |
                                 4900 |
     108 | 3100.00 |
                       3100 |
                                 3100 |
     109 | 2700.00 |
                       2700 |
                                 2700 |
110 | 3600.00 |
                                 3600 |
                       3600 |
```

10 rows in set (0.000 sec)

23.

| employee_id | salary | salary_category |
+-----+
101	4500.00	Medium
102	5200.00	Medium
103	6700.00	High
104	3800.00	Low
105	4000.00	Medium
106	6000.00	Medium
107	4900.00	Medium
108	3100.00	Low
109	2700.00	Low
110	3600.00	Low

25. SELECT

-> employee_id,

10 rows in set (0.001 sec)

- -> salary,
- -> LENGTH(REPLACE(CAST(salary AS CHAR), '.', ")) AS digit_count

-> FROM

-> employees;

+----+

| employee_id | salary | digit_count |

+----+

| 101 | 4500.00 | 6 |

| 102 | 5200.00 | 6 |

| 103 | 6700.00 | 6 |

| 104 | 3800.00 | 6 |

| 105 | 4000.00 | 6 |

| 106 | 6000.00 | 6 |

| 107 | 4900.00 | 6 |

| 108 | 3100.00 | 6 |

| 109 | 2700.00 | 6 |

| 110 | 3600.00 | 6 |

+----+

10 rows in set (0.002 sec)

26. SELECT CURRENT_DATE() AS today_date;

+----+

| today_date |

+----+

| 2025-07-27 |

+----+

- -> employee_id,
- -> first_name,
- -> last_name,
- -> hire_date
- -> FROM

```
-> employees
  -> WHERE
 -> YEAR(hire_date) = YEAR(CURRENT_DATE());
Empty set (0.043 sec)
28. SELECT
 -> employee_id,
 -> first_name,
 -> last_name,
  -> hire_date
 -> FROM
 -> employees
 -> WHERE
  -> YEAR(hire_date) = YEAR(CURRENT_DATE());
Empty set (0.001 sec)
29. SELECT NOW() AS current_datetime;
+----+
| current_datetime |
+----+
| 2025-07-27 21:01:47 |
+----+
1 row in set (0.000 sec)
30. SELECT
  -> employee_id,
 -> hire_date,
 -> YEAR(hire_date) AS hire_year,
 -> MONTH(hire_date) AS hire_month,
 -> DAY(hire_date) AS hire_day
 -> FROM
  -> employees;
```

```
+----+
| employee_id | hire_date | hire_year | hire_month | hire_day |
+-----+
    101 | 2015-03-15 | 2015 |
                            3 |
                                  15 |
    102 | 2018-06-23 |
                    2018 |
                            6 |
                                  23 |
    103 | 2012-09-10 |
                    2012 |
                            9 |
                                  10 |
    104 | 2020-01-05 |
                    2020 |
                             1 |
                                  5 |
    105 | 2019-12-11 |
                    2019 |
                             12 |
                                  11 |
    106 | 2017-07-08 |
                    2017 |
                             7 |
                                  8 |
    107 | 2014-11-02 |
                    2014 |
                             11 |
                                 2 |
    108 | 2013-02-17 |
                    2013 |
                             2 |
                                  17 |
    109 | 2021-08-30 |
                    2021 |
                            8 |
                                  30 |
    110 | 2022-05-19 |
                    2022 |
                             5 |
                                  19 |
+----+
10 rows in set (0.001 sec)
31. SELECT
 -> employee_id,
 -> first_name,
 -> last_name,
 -> hire_date
 -> FROM
 -> employees
 -> WHERE
 -> hire_date < '2020-01-01';
+-----+
| employee_id | first_name | last_name | hire_date |
+-----+
    101 | Alice | Johnson | 2015-03-15 |
    102 | Bob
              | Smith | 2018-06-23 |
```

```
103 | Carol | Adams | 2012-09-10 |
    105 | Eve
             | Martins | 2019-12-11 |
    106 | Frank | Green | 2017-07-08 |
    107 | Grace | Brown | 2014-11-02 |
             | Wilson | 2013-02-17 |
    108 | Hank
+----+
7 rows in set (0.000 sec)
32.
MariaDB [employee_management] > SELECT
 -> project_id,
 -> project_name,
 -> end_date
 -> FROM
 -> projects
 -> WHERE
 -> end_date IS NOT NULL
 -> AND end_date BETWEEN DATE_SUB(CURRENT_DATE(), INTERVAL 30 DAY) AND
CURRENT_DATE();
+----+
+-----+
   204 | Marketing Blitz 2025 | 2025-06-30 |
+----+
33. SELECT
 -> project_id,
 -> project_name,
 -> DATEDIFF(end_date, start_date) AS total_days
 -> FROM
```

-> projects

```
-> WHERE
```

-> CASE

-> end_date IS NOT NULL; +-----+ 201 | HR Revamp | 364 | 202 | Finance Automation | 350 | 204 | Marketing Blitz 2025 | 149 | 205 | Legal Compliance | 184 | 206 | Customer Portal | 364 | 207 | Sales Booster | 364 | 209 | Procurement Tracker | 245 | 210 | Operations Streamline | 365 | +----+ 8 rows in set (0.000 sec) 34. SELECT CONCAT('28892 - ', MONTHNAME('2025-07-23'), ' ', -> DAY('2025-07-23'), ', ', YEAR('2025-07-23')) AS formatted_date; +----+ | formatted_date +----+ | 28892 - July 23, 2025 | +----+ 1 row in set (0.007 sec) 35**. SELECT** -> project_id, -> project_name,

WHEN end_date IS NULL THEN 'Ongoing' -> ELSE 'Completed' -> END AS project_status -> FROM -> projects; +----+ | project_id | project_name | project_status | +----+ 201 | HR Revamp | Completed | 202 | Finance Automation | Completed | 203 | IT Infrastructure Upgrade | Ongoing 204 | Marketing Blitz 2025 | Completed 205 | Legal Compliance | Completed 206 | Customer Portal | Completed 207 | Sales Booster | Completed | 208 | R&D Pilot | Ongoing 209 | Procurement Tracker | Completed 210 | Operations Streamline | Completed -----+ 10 rows in set (0.000 sec) 36. **SELECT** -> employee_id, -> salary, -> CASE -> WHEN salary >= 6000 THEN 'High' -> WHEN salary BETWEEN 4000 AND 5999.99 THEN 'Medium' -> ELSE 'Low' -> END AS salary_category

-> FROM employees;

```
| employee_id | salary | salary_category |
     101 | 4500.00 | Medium
     102 | 5200.00 | Medium
     103 | 6700.00 | High
     104 | 3800.00 | Low
     105 | 4000.00 | Medium
     106 | 6000.00 | High
     107 | 4900.00 | Medium
     108 | 3100.00 | Low
                             1
     109 | 2700.00 | Low
     110 | 3600.00 | Low
+----+
10 rows in set (0.001 sec)
37. SELECT
  -> employee_id,
  -> COALESCE(email, 'No Email') AS email_or_default
 -> FROM employees;
| employee_id | email_or_default
     101 | alice.johnson@company.com |
     102 | bob.smith@company.com |
     103 | carol.adams@company.com |
     104 | david.lee@company.com |
     105 | eve.martins@company.com |
     106 | frank.green@company.com |
     107 | grace.brown@company.com |
```

```
108 | hank.wilson@company.com |
    109 | ivy.clark@company.com |
    110 | jake.white@company.com |
+----+
10 rows in set (0.001 sec)
38. SELECT
 -> employee_id,
 -> hire_date,
 -> CASE
     WHEN hire_date < '2015-01-01' THEN 'Veteran'
 -> ELSE 'Newcomer'
 -> END AS veteran_status
 -> FROM employees;
+----+
| employee_id | hire_date | veteran_status |
+----+
    101 | 2015-03-15 | Newcomer
    102 | 2018-06-23 | Newcomer
    103 | 2012-09-10 | Veteran
    104 | 2020-01-05 | Newcomer
    105 | 2019-12-11 | Newcomer
    106 | 2017-07-08 | Newcomer
    107 | 2014-11-02 | Veteran
    108 | 2013-02-17 | Veteran
    109 | 2021-08-30 | Newcomer
    110 | 2022-05-19 | Newcomer
+----+
```

10 rows in set (0.000 sec)

- -> employee_id,
- -> COALESCE(salary, 3000) AS salary_with_default
- -> FROM employees;

+----+

| employee_id | salary_with_default |

+		+
I	101	4500.00
1	102	5200.00
1	103	6700.00
1	104	3800.00
1	105	4000.00
1	106	6000.00
1	107	4900.00
1	108	3100.00
1	109	2700.00
1	110	3600.00

+----+

10 rows in set (0.000 sec)

40. **SELECT**

- -> e.employee_id,
- -> d.department_name,
- -> CASE
- -> WHEN d.department_name = 'Information Technology' THEN 'IT'
- -> WHEN d.department_name = 'Human Resources' THEN 'HR'
- -> ELSE 'Other'
- -> END AS dept_group
- -> FROM employees e
- -> JOIN department d USING(department_id);

+-----+

```
| employee_id | department_name | dept_group |
+-----+
    101 | Human Resources | HR
    102 | Information Technology | IT
    103 | Finance | Other |
    104 | Marketing | Other |
    105 | Information Technology | IT
    106 | Sales
                    Other |
    107 | Legal | Other |
    108 | Operations
                       Other |
    109 | Research and Development | Other
    110 | Customer Service | Other |
10 rows in set (0.001 sec)
41. SELECT
 -> e.employee_id,
 -> CASE
 -> WHEN ep.project_id IS NULL THEN 'Unassigned'
 -> ELSE 'Assigned'
 -> END AS assignment_status
 -> FROM employees e
 -> LEFT JOIN employee_projects ep ON e.employee_id = ep.employee_id;
+----+
| employee_id | assignment_status |
+----+
    101 | Assigned |
    102 | Assigned
    103 | Assigned
    104 | Assigned
```

```
105 | Assigned
     106 | Assigned
     107 | Unassigned
     108 | Unassigned
     109 | Unassigned
     110 | Unassigned
  -----+
10 rows in set (0.000 sec)
42. SELECT
 -> employee_id,
 -> COALESCE(salary, 0) AS salary,
 -> CASE
 -> WHEN COALESCE(salary, 0) > 6000 THEN 'H1'
     WHEN salary BETWEEN 4000 AND 6000 THEN 'H2'
     ELSE 'H3'
  -> END AS tax_band
 -> FROM employees;
+----+
| employee_id | salary | tax_band |
     101 | 4500.00 | H2
     102 | 5200.00 | H2
     103 | 6700.00 | H1
     104 | 3800.00 | H3
     105 | 4000.00 | H2
     106 | 6000.00 | H2
     107 | 4900.00 | H2
     108 | 3100.00 | H3
```

109 | 2700.00 | H3

```
110 | 3600.00 | H3
+----+
10 rows in set (0.000 sec)
43. SELECT
 -> project_id,
 -> project_name,
 -> CASE
     WHEN end_date IS NULL THEN 'Ongoing'
     WHEN DATEDIFF(end_date, start_date) < 30 THEN 'Short-term'
     WHEN DATEDIFF(end_date, start_date) <= 180 THEN 'Medium-term'
     ELSE 'Long-term'
 -> END AS duration_label
 -> FROM projects;
+----+
| project_id | project_name | duration_label |
+----+
    201 | HR Revamp
                       | Long-term |
    202 | Finance Automation
                            | Long-term
    203 | IT Infrastructure Upgrade | Ongoing
    204 | Marketing Blitz 2025 | Medium-term |
    205 | Legal Compliance | Long-term |
    206 | Customer Portal
                         | Long-term
    207 | Sales Booster
                        | Long-term
    208 | R&D Pilot
                        Ongoing
    209 | Procurement Tracker
                            | Long-term
    210 | Operations Streamline | Long-term
```

10 rows in set (0.000 sec)

```
-> employee_id,
 -> salary,
 -> CASE
 -> WHEN MOD(ROUND(COALESCE(salary,0)), 2) = 0 THEN 'Even Salary'
 -> ELSE 'Odd Salary'
 -> END AS salary_parity
 -> FROM employees;
+----+
| employee_id | salary | salary_parity |
+----+
    101 | 4500.00 | Even Salary |
    102 | 5200.00 | Even Salary |
    103 | 6700.00 | Even Salary |
    104 | 3800.00 | Even Salary |
    105 | 4000.00 | Even Salary |
    106 | 6000.00 | Even Salary |
    107 | 4900.00 | Even Salary |
    108 | 3100.00 | Even Salary |
    109 | 2700.00 | Even Salary |
    110 | 3600.00 | Even Salary |
+----+
10 rows in set (0.000 sec)
45. SELECT CONCAT('28892 - ', COALESCE(first_name, 'First'), ' ', COALESCE(last_name, 'Last')) AS
display_name
 -> FROM employees;
+----+
display_name |
+----+
| 28892 - Alice Johnson |
```

```
| 28892 - Bob Smith |
| 28892 - Carol Adams |
| 28892 - David Lee |
| 28892 - Eve Martins |
| 28892 - Frank Green |
| 28892 - Grace Brown |
| 28892 - Hank Wilson |
| 28892 - Ivy Clark |
| 28892 - Jake White |
+----+
10 rows in set (0.001 sec)
46. SELECT employee_id,
       CONCAT('28892 - ', first_name, last_name) AS name_joined,
 ->
       CASE
 ->
         WHEN LENGTH(CONCAT(first_name, last_name)) > 10 THEN 'Long Name'
         ELSE 'Short Name'
       END AS name_length_label
 ->
 -> FROM employees;
 -----+
| employee_id | name_joined | name_length_label |
 -----+
    101 | 28892 - AliceJohnson | Long Name
    102 | 28892 - BobSmith | Short Name
     103 | 28892 - CarolAdams | Short Name
     104 | 28892 - DavidLee | Short Name
     105 | 28892 - EveMartins | Short Name
     106 | 28892 - FrankGreen | Short Name
                                           1
     107 | 28892 - GraceBrown | Short Name
     108 | 28892 - HankWilson | Short Name
```

```
109 | 28892 - IvyClark | Short Name
    110 | 28892 - JakeWhite | Short Name
+-----+
10 rows in set (0.001 sec)10 rows in set (0.001 sec)
47. SELECT
 -> employee_id,
 -> email,
 -> CASE
    WHEN UPPER(email) LIKE '%TEST%' THEN 'Dummy Account'
 -> ELSE 'Real Account'
 -> END AS email_type
 -> FROM employees;
+-----+
+-----+
    101 | alice.johnson@company.com | Real Account |
    102 | bob.smith@company.com | Real Account |
    103 | carol.adams@company.com | Real Account |
    104 | david.lee@company.com | Real Account |
    105 | eve.martins@company.com | Real Account |
    106 | frank.green@company.com | Real Account |
    107 | grace.brown@company.com | Real Account |
    108 | hank.wilson@company.com | Real Account |
    109 | ivy.clark@company.com | Real Account |
    110 | jake.white@company.com | Real Account |
 -----+
10 rows in set (0.000 sec)
```

48. SELECT

-> employee_id,

- -> hire_date,
- -> CASE
- -> WHEN YEAR(hire_date) <= YEAR(CURRENT_DATE()) 10 THEN 'Senior'
- -> ELSE 'Junior'
- -> END AS seniority
- -> FROM employees;

```
+-----+
```

| employee_id | hire_date | seniority |

+-----+

- | 101 | 2015-03-15 | Senior |
- | 102 | 2018-06-23 | Junior |
- | 103 | 2012-09-10 | Senior |
- | 104 | 2020-01-05 | Junior |
- | 105 | 2019-12-11 | Junior |
- | 106 | 2017-07-08 | Junior |
- | 107 | 2014-11-02 | Senior |
- | 108 | 2013-02-17 | Senior |
- | 109 | 2021-08-30 | Junior |
- | 110 | 2022-05-19 | Junior |

+----+

10 rows in set (0.001 sec)

- -> employee_id,
- -> salary,
- -> CASE
- -> WHEN salary IS NULL THEN 'N/A'
- -> WHEN salary <= 4000 THEN '5%'
- -> WHEN salary <= 6000 THEN '7%'
- -> ELSE '10%'

-> END AS increment_rate

```
-> FROM employees;
```

10 rows in set (0.001 sec)

- -> employee_id,
- -> hire_date,
- -> CASE
- -> WHEN MONTH(hire_date) = MONTH(CURRENT_DATE()) THEN 'Anniversary Month'
- -> ELSE 'Regular Month'
- -> END AS anniversary_flag
- -> FROM employees;

```
+-----+
| employee_id | hire_date | anniversary_flag |
+-----+
| 101 | 2015-03-15 | Regular Month |
```

```
| 102 | 2018-06-23 | Regular Month | 103 | 2012-09-10 | Regular Month | 104 | 2020-01-05 | Regular Month | 105 | 2019-12-11 | Regular Month | 106 | 2017-07-08 | Anniversary Month | 107 | 2014-11-02 | Regular Month | 108 | 2013-02-17 | Regular Month | 109 | 2021-08-30 | Regular Month | 110 | 2022-05-19 | Regular Month | 110 | 2022-05-19 | Regular Month | 110 | 2022-05-19 | Regular Month | 109 | 2021-08-30 | Regular Month | 109 | 2021-08-30 | Regular Month | 110 | 2022-05-19 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110
```

10 rows in set (0.000 sec)