

## # Exercise 6 (NULL functions)

① SELECT employee\_id,

    name,  
    COALESCE(Salary, 0) AS salary-with  
    default

FROM Employees;

Employee_id	name	Salary - with - default
1	Alice	5000
2	Bob	0
3	Charlie	7000
4	Dany	0

② SELECT employee\_id,

    name

    COALESCE(department, 'Not assigned')  
    AS department-name  
FROM Employees;

Employee_id	Name	department - name
1	Alice	HR
2	Bob	IT
3	Charlie	Not assigned
4	Dany	Finance

④ SELECT order\_id,  
        customer\_id

    CASE

        WHEN delivery\_date IS NULL THEN  
        'Pending'

```

    ELSE delivery_date
END AS delivery_status
FROM Orders;

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order_id	customer_id	delivery_status
101	201	2024-12-01
102	202	Pending
103	NULL	2024-12-03

③ SELECT order\_id,  
   customer\_id  
   FROM Orders  
   WHERE customer\_id IS NULL ;

order_id	customer_id
103	NULL

⑤ SELECT student\_id,  
   name,  
   COALESCE (grade, 0) AS final\_grade  
   FROM Students;

student_id	Name	final_grade
1	Ethan	85
2	Maya	0
3	Olivia	90
4		

⑥ SELECT COUNT(\*) AS not-graded-count  
FROM Students  
WHERE grade IS NULL

Not-graded-count
1

⑦ SELECT product\_id,  
name,  
price - COALESCE(discount, 0)  
AS final-price  
FROM products ;

Product id	Name	final-price
501	Keyboard	25
502	Mouse	10
503	Monitor	100

⑧ SELECT ~~customer\_id~~,  
~~name~~,  
SELECT COUNT(\*) AS missing\_email\_count  
FROM customers  
WHERE email IS NULL ;

missing_email_count
2

Q) SELECT customer\_id,  
 name,  
 (CASE (email, 'No Email') AS  
 email\_display  
 FROM customers;

customer_id	Name	Email- display
1	Linda	No Email
2	Joseph	Joseph@mail.com
3	Nia	No Email

⑩ SELECT payment\_id,  
 (CASE (method, 'Unknown') AS  
 method\_display, status  
 FROM payments;

Payment_id	Method- display	status
301	credit	NULL
302	Pay Pal	Success
303	Unknown	failed

11) `SELECT item-id,  
item-name,  
(COALESCE(quantity, 0) AS quantity - checked  
FROM Inventory;`

item-id	item name	quantity - checked
1	Pen	0
2	Notebook	150
3	Eraser	0

12) `SELECT emp-id  
(COALESCE(bonus, commission) AS first-available-reward  
FROM employees-Extra;`

emp-id	first-available-reward
1	300
2	100
3	NULL

13) `SELECT COUNT(*) AS no-room-count  
FROM Classes  
WHERE room IS NULL;`

no-room-count
2

⑯ SELECT student\_id,  
 date,  
 COALESCE(status, 'Not Marked')  
 AS attendance\_Status  
 FROM Attendance;

student_id	date	Attendance_Status
1	2025-04-01	Not Marked
2	2025-04-01	Present
3	2025-04-01	Absent

⑰ SELECT account\_id  
 COALESCE(account\_type 'unknown')  
 AS type\_display,  
 COALESCE(balance, 0) AS  
 balance\_checked  
 FROM Bank\_Accounts;

Account_id	Type_display	balance_checked
A1	Savings	0
A2	Current	5000
A3	Unknown	2000

⑱ SELECT project\_id,  
 title,  
 COALESCE(start\_date, 'TBD') AS  
 start\_display  
 FROM Projects;

⑯ SELECT student\_id,  
 date,  
 COALESCE(status, 'Not Marked',  
 AS attendance\_Status  
 FROM Attendance;

student_id	date	Attendance_Status
1	2025-04-01	Not Marked
2	2025-04-01	Present
3	2025-04-01	Absent

⑯ SELECT account\_id,  
 COALESCE(account\_type 'unknown',  
 AS type\_display,  
 COALESCE(balance, 0) AS  
 balance\_checked  
 FROM Bank\_Accounts;

Account_id	Type_display	balance_checked
A1	Savings	0
A2	Current	5000
A3	Unknown	2000

⑯ SELECT project\_id,  
 title,  
 COALESCE(start\_date, 'TBD') AS  
 start\_display  
 FROM Projects;

Project_id	Title	Start - display
1	Website Redesign	2023-01-10
2	Mobile APP	TBD
3	Data Migration	TBD

⑦ `SELECT review_id, product_id, COALESCE(comment, 'No comment') AS comment_display, COALESCE(rating, 0) AS rating_display`  
 FROM Reviews ;

review_id	product_id	Comment display	rating - display
1	501	Great product	4
2	502	No comment	0
3	503	Works fine	3

⑧ `SELECT supplier_id, name, COALESCE(phone, alt-phone, 'No contact') AS contact_number`  
 FROM Suppliers ;

Supplier_id	Name	Contact_Number
1	Global Goods	123456789
2	Best Supplies	987654321
3	Value Source	No Contact

(9) SELECT user\_id  
 COALESCE(theme, 'Light')  
 AS theme\_set,  
 COALESCE(language, 'English')  
 AS lang\_language\_set,  
 COALESCE(time\_zone, 'UTC')  
 AS time\_zone\_set  
 FROM user\_settings;

user_id	theme_set	language_set	timezone_set
1	Light	English	UTC
2	Dark	English	UTC
3	Light	English	UTC

(10) SELECT record\_id,  
 machine\_id,  
 COALESCE(issue, 'Unknown Issue')  
 AS issue\_log,  
 COALESCE(technician, 'Not Assigned')  
 AS technician\_name  
 FROM maintenance;

record_id	Machine_id	issue_log	technician_name
1	M101	overheating	Not Assigned
2	M102	Unknown issue	Not Assigned
3	M103	Crashed	Alex