

## Exercise 6 Nice functions

① `Select employee_id, name, salary (salary, 0) AS salary - with - default from Employees;`

employee_id	name	salary - with - default
1	Alice	5000
2	Bob	0
3	Charlip	7000
4	Dana	0

② `Select employee_id, name, department ('NOT Assigned') AS department_name from employees;`

employee_id	name	department_name
1	Alice	HR
2	Bob	IT
3	Charlip	Not Assigned
4	Dana	Finance.

③ `Select order_id, customer_id  
from orders  
where customer_id IS NULL;`



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

not graded count

① SELECT product-id,  
name,  
price - ISNULL(discount, 0) AS final-price  
FROM products;

product-id	name	final-price
501	Keyboard	25
502	Mouse	10
503	Monitor	100

⑧ SELECT COUNT(\*) AS missing-email-count  
FROM customers  
WHERE email is NULL;

Missing-email-count

# \* PRACTICE COALESCE Syntax!

⑨ `SELECT customer_id,  
 name,  
 COALESCE (email, 'no Email') AS email_display  
FROM Customers;`

Customer-id	Name	email-display
1	Linda	no email
2	Joseph	joseph@gmail.com
3	Nid	no email

⑩ `SELECT payment_id,  
 COALESCE (method, 'Unknown') AS method  
 status  
FROM Payments;`

Payment-id	method-display	Status
301	Credit	NULL
302	Paypal	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,  
 GOALESCE(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

(14) SELECT student-id,  
 date,  
 COALESCE(status, 'not marked') AS  
 other 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

⑤ `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

⑥ `SELECT project-id,  
 title,  
 COALESCE (CAST (start-date AS VARCHAR,  
 'TBD') AS start,  
 FROM projects;`

project-id	title	start-display
1	Website Revamp	2025-01-10
2	Mobile App	TBD
3	Data Migration	TBD



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

(20) **SELECT** record\_id,  
**machine\_id**,  
**CONCE~~SCE~~ (issue, 'Unknown Issue')** AS  
**ISSUE\_LOG**,  
**CONCE~~SCE~~ (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