

## Exercise 6: NULL Functions

Q1. `SELECT employee_id, name,  
IF NULL (salary, 0) AS salary_with-default  
from Employees;`

<u>employeeid</u>	<u>name</u>	<u>salary with - default</u>
1	Alice	5000
2	Bob	0
3	Charlie	7000
4	Dana	0

Q2. `SELECT employee_id, name, department  
IFNULL (department, 'Not Assigned') AS  
department_name  
from Employees;`

<u>employee-id</u>	<u>name</u>	<u>department_name</u>
1	Alice	HR
2	Bob	IT
3	Charlie	Not Assigned
4	Dana	Finance

Q3. `SELECT order_id, customer_id  
From orders  
where customer_id ISNULL;`

<u>Order-id</u>	<u>customer-id</u>
103	NULL

Q4. `SELECT order_id, customer_id, *  
IFNULL (delivery_date, 'Pending') AS delivery_date  
from Orders;`

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

Q9.

Q5. SELECT student\_id, name  
FROM students;

student_id	name	final-grade
1	Ethan	85
2	Maya	0
3	Olivia	90

Q10.

Q6. SELECT COUNT(\*) AS not-graded-count  
FROM Students  
WHERE grade IS NULL;

not-graded-count
1

Q7. SELECT product\_id, name, price - IFNULL(price,  
0) AS final-price  
FROM Products;

product_id	name	final-price
S01	Keyboard	25
S02	Mouse	10
S03	Monitor	100

Q8. SELECT COUNT(\*) AS missing\_email-count  
FROM Customers

WHERE email IS NULL;

missing_email-count
2

Q9. SELECT customer\_id, name, re,  
 IFNULL(email, 'No Email') AS email-display  
 FROM customers;

<u>Customer_id</u>	<u>name</u>	<u>email-display</u>
1	Lindly	No Email
2	Joseph	Joseph@real.ca
3	Nia	No Email

Q10. SELECT payment\_id, status,  
 IFNULL(method, 'Unknown') AS method-display  
 FROM payments;

<u>payment_id</u>	<u>status</u>	<u>method-display</u>
301	Pending	Credit
302	Success	PayPal
303	Parted	Unknown

Q11. SELECT item\_id, item\_name,  
 IFNULL(quantity, 0) AS quantity-checked  
 FROM inventory;

<u>item_id</u>	<u>item-name</u>	<u>quantity-checked</u>
1	Pen	0
2	Notebook	150
3	Gaser	0

Q12. SELECT emp\_id, COALESCE(bonus, 0) AS  
 first-available-reward  
 FROM employees\_extra;

<u>emp_id</u>	<u>first-available-reward</u>
1	300
2	100
3	Null

Q13. SELECT COUNT(\*) AS no-room-count  
 FROM CLASS  
 WHERE room IS NULL;  
no-room-count  
 ↴  
 ↴

Q14. SELECT student\_id, date,  
 IFNULL(status, 'Not marked') AS attendance\_status  
 FROM Attendance;

student_id	date	attendance_status
1	2023-04-01	Not marked
2	2023-04-01	Present
3	2023-04-01	Absent

Q15. SELECT account\_id, IFNULL(account\_type, 'Unknown')  
 AS type\_display → IFNULL(balance, 0) AS balance\_checked

account_id	type_display	balance_checked
A1	Savings	0
A2	Current	5000
A3	Unknown	2000

Q16. SELECT project\_id, title, IFNULL(start\_date, 'TBD')  
 AS start\_display

FROM Projects;

project_id	title	start_display
1	Website Revamp	2023-01-10
2	Mobile App	TBD
3	Data Migration	TBD

Q17. SELECT review-id, product-id, IFNULL('correct', 'No (incorrect)') AS correct-display  
 & IFNULL('rating', 0) AS rating-display

From Reviews;

review-id	product-id	correct-display	rating-display
1	S01	Great product	4
2	S02	No comment	0
3	S03	Works fine	3

Q18. SELECT supplier-id, name, CONCAT(phone-number, ' ',  
 A) contact-number

From Suppliers;

supplier-id	name	contact-number
1	Global Tools	123456789
2	Best Supplies	987654321
3	Vintedrew	No contact

Q19. SELECT user-id, IFNULL('Here', 'Light') AS theme-set,  
 IFNULL('English', 'English') AS language-set,  
 IFNULL('UTC', 'UTC') AS timezone-set

From User-settings;

user-id	theme-set	language-set	timezone-set
1	Light	English	UTC
2	Dark	English	UTC+1
3	Light	English	UTC

Q20. SELECT record-id, machine-id,  
 IFNULL('use', 'Unknown use') AS use-log,  
 IFNULL('technician', 'Not Assigned') AS technician-name

From Maintenance;

record-id	machine-id	use-log	technician-name
1	M101	Overheating	Not assigned
2	M102	Unknown use	Not assigned
3	M103	Janmed	Alex