

Exercise 6: NULL FUNCTIONS

Q1. SELECT employee-id, name,
IF NULL (salary, 0) AS salary-with-default
FROM Employees;

employee-id	name	salary-with-default
1	Alice	5000
2	Bob	0
3	Charlie	7000
4	Dora	0

Q2. SELECT employee-id, name, ~~department~~
IF NULL (department, 'Not Assigned') AS
department-name
FROM Employees;

employee-id	name	department-name
1	Alice	HR
2	Bob	IT
3	Charlie	Not Assigned
4	Dora	Finance

Q3. SELECT order-id, customer-id
FROM orders
WHERE customer-id IS NULL;

order-id	customer-id
103	NULL

Q4. SELECT order-id, customer-id, *
IF NULL (delivery-date, 'Pending') AS delivery-status
FROM Orders;

order-id	customer-id	delivery-status
101	201	2024-12-01
102	202	Pending
103	Null	2024-12-03

Q5. `SELECT student-id, name`
`IFNULL (grade, 0) AS final-grade`
`FROM students;`

student-id	name	final-grade
1	Ethan	85
2	Mayer	0
3	Olivia	90

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

not-graded-count
1

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

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

Customer-id email-display	name	email-display
1	Linda	No Email
2	Joseph	joseph@mail.com
3	Nia	No Email

Q10.

SELECT payment-id, status,
IFNULL(method, 'Unknown') AS method-display

FROM Payments

payment-id	status	method-display
301	Null	Credit
302	Success	PayPal
303	Failed	Unknown.

Q11.

SELECT item-id, item-name,

IFNULL(quantity, 0) AS quantity-checked

FROM Inventory;

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

Q12.

SELECT emp-id, COALESCE(bonus, 0) AS
first-available-reward

FROM Employees-Extra;

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

Q13. SELECT COUNT(*) AS no-room-count
FROM Classes
WHERE Room IS NULL;

no-room-count
2

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

FROM Bank-Accounts

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 Launch	2023-01-10
2	Mobile App	TBD
3	Data Migration	TBD

Q17. ~~SELECT~~ review-id, product-id, ~~IFNULL (correct, 'No correct')~~
 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 correct	0
3	S03	Works fine	3

(No correct)

Q18. SELECT supplier-id, name, ~~CONTACTS~~ (phone, alt phone)
 AS contact-number
 FROM Suppliers;

Supplier-id	name	contact-number
1	Global Corp	123456789
2	Best Supplier	987654321
3	Vulnerable	No contact

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

record-id	machine-id	use-log	technician-name
1	m101	Overheady	Not assigned
2	m102	Unknown Use	Not assigned
3	m103	Immured	Alex