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NULL FUNCTION Exercise 6.

Table 1 Employees

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

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

Q2 -SELECT employee-id,
name,
IFNULL(department, 'NOT assigned') AS department-
FROM employees;

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

outcome

Table 2: Orders

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

order-id	customer-id
103	NULL

outcome.

Q4 SELECT order_id,
customer_id
IFNULL (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

Table 3: Students

Q5 ~~statement~~. SELECT student_id,
name
IFNULL (grade, 0) AS final_grade
FROM Students;

student_id	name	final_grade
1	Ethan	85
2	Maya	0
3	Olivia	90

Q6 SELECT COUNT (*) AS not-graded_count
FROM Students
WHERE grade IS NULL

Not-graded_count
1

Table 4: Products

Product-id	name	price	discount
S01	keyboard	25	NULL
S02	Mouse	15	5
S03	Monitor	100	NULL

Q7 SELECT product-id,
name,
price
IFNULL (discount, 0) AS discount_zero
price - IFNULL(discount, 0) AS final price ;

Product-id	name	final-price
S01	keyboard	25
S02	Mouse	10
S03	Monitor	100

Table 5 Customers

Q8 SELECT COUNT(*) AS missing-email-count
FROM customers
WHERE email IS NULL ;

missing-email-count
2

Question 9

```
SELECT customer-id  
       name  
       IFNULL(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

Table 6

```
Q10 SELECT payment-id  
      IFNULL(method, 'Unknown') AS method-display,  
      status  
FROM payments;
```

payment-id	method-display	status
301	Credit	NULL
302	Payroll	Success
303	Unknown	Failed

Table 7

```
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	Erase	0

Table 8.

Q12 SELECT emp.id,
COALESCE(bonus, commission) AS first-available-reward
FROM Employees-Extra;

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

Table 9

Q13 SELECT COUNT(*) AS no-rcm-count
FROM classes
WHERE rcm IS NULL

no-rcm-count
2

Table 10

Q14 SELECT student-id,
date
IFNULL(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

Table 11

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

Table 12

SELECT project-id,
title,
IFNULL (start-date, 'TBD') AS start-display
FROM Projects ;

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

Table 13

SELECT review-id,
product-id,
IFNULL (comment, 'No Comment') AS comment-display,
IFNULL (rating, 0) AS rating display
FROM Reviews ;

review_id	product_id	comment_display	rating_display
1	S01	Great product	4
2	S02	No Comment	0
3	S03	Works fine	3

Table 14

SELECT supplier_id,
name,
COALESCE (phone, alt phone, 'No contact') As contact_number
FROM suppliers;

Expected Output:

Supplier_id	name	contact number
1	Global goods	123 456 789
2	Best suppliers	987 654 321
3	Value Source	No Contact

Table 15

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.

Table 16: Maintenance

Q20

```
SELECT record_id,  
       machine_id,  
       IFNULL(issue, 'unknown issues') AS issue_log,  
       IFNULL(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	103	Jammed	Not assigned