

EXERCISE 6

NULL FUNCTIONS

1) SELECT emp_id,
emp_name

IF Null (Salary ; 0) AS Salary

From employees;

employee_id	employee_name	S_salary
1	Alice	500
2	Bob	0
3	Charlie	700
4	Dana	0

2. Show employees names with their department. If department
is null show "Not assigned".

SELECT emp_id,
name,

Coalesce (department, 'Not assigned') AS department_name

From Employees;

emp_id	name	department_name
1	Alice	HR
2	Bob	Not assigned
3	Charlie	Not assigned
4	Dana	Finance

3 Find orders with Null customer_id using ISNULL()

SELECT Order_id,
Customer_id

From Orders

WHERE Customer_id ISNULL;

Order_id	Customer_id
103	Null

4) Show all orders . If delivery - date is Null , Show 'Pending'

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

5) Show all Students and their grades , Replace Null with 0

Select student_id ,

name ,

IFNULL (grade , 0) AS final-grade

From Students ;

Students_id	name	Final_g
1	Ethan	85
2	Maya	0
3	Olivia	90

6) COUNT Student who havent been graded .

Select

COUNT * AS not_graded_Count

From Students

WHERE grade ISNULL ;

Not_graded_Count
1

7) Show product name, price and final price after discount.
 (Assume 0% if discount is Null).

SELECT name,
 Price

Price - (Price IF Null(discount, 0) AS final price

From Products;

name	price	discount	final_price
keybord	25	5	23.75
mouse	15	Null	15.00
monitor	100	Null	100.00

18) Show employee ID and the first available value among bonus or commission

SELECT emp_id,

COALESCE(bonus, commission) AS first_available_reward

FROM Employee_extra;

emp_id	first_available_reward
1	Null
2	100
3	Null

8) Count how many customers have no email.

SELECT COUNT* AS missing_email_count

FROM customers

WHERE email ISNULL

missing_email_count

3

9) Show all customers with email . If Null , display " No Email"

```
SELECT customer_id,
       name,
IF Null(email, 'No Email') AS email_display
FROM customers;
```

Customer_id	name	email_display
1	Linda	No email
2	Joseph	No email
3	Mia	No email

10) Show payment details with method replaced by 'Unknown'
IF Null

```
SELECT payment_id,
IF Null(method, 'Unknown') AS method_display, status
From Payments;
```

Payments_id	method_display	Status
301	Unknown	Null
302	Paypal	Success
303	Unknown	Failed.

11) Show items and their quantity (0 . If Null)

```
Select item_id,
item_name,
IF Null(quantity, 0) AS quantity_checked
```

From Inventory;

Item_id	Item names	quantity_checked
1	Pen	0
2	Notebook	150
3	Eraser	0

13) Count classes that don't have a room assigned.

SELECT COUNT * AS no-room-count

From classes

WHERE room IS NULL;

Out	no_room_count
	2

14) Show attendance records with status Replace Null with 'Not Marked'

SELECT student_id,
date

COALESCE(status, 'NOT marked') AS attendance_st

FROM Attendance j

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

15) Show account_id, account_type (or 'unknown') and balance (or

SELECT account_id,

COALESCE(account_type, 'Unknown') AS type_display

FROM Bank_Accounts;

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

16 Show all projects with a start date. If start_date

is null, display 'TBD'

SELECT project_id, title

IF Null (start_date, 'TBD') AS display

From projects;

project_id title start_date display

1 Web Rev 2025-10-10

2 mobile App TBD

3 Data Mig TBD

17 Display reviews showing comments (or 'no comments') and rating (or 0)

SELECT review_id,

product_id,

COALESCE (comment, 'No comment') AS comment_display

COALESCE (rating, 0) AS rating display

review_id	product_id	comment_display	rating_display
501	Credit Proda	=	04
502	No Comm	=	0
503	Works fine	=	3