

(9)

## User-settings

Table 15

user_id	theme	language	timezone
1	Hull	English	Null
2	Dark	Null	UTC +1
3	Hull	Null	Null

Q 19 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

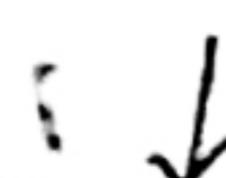
record_id	machine_id	issue	technician
1	M101	Overheating	Hull
2	M102	Hull	Hull
3	M103	Fummec	Alex

Q 20 SELECT record\_id, machine\_id,

IFNULL(issue, unknown issue) AS issue-log,

IFNULL(technician, Not assigned) AS technician-name

FROM Maintenance;



record_id	machine_id	issue-log	technician
1	M101	Overheating	Not assigned
2	M102	Unknown issue	Not Assigned
3	M103	Fummec	Alex

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Ans 10

payment-id	method-display-	status
301	Credit	HULL
302	Paypal	Success
303	Unknown	Failed

Inventory

Table 7

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

Q 11

```
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

Table 8

Employees-Extra

emp-id	bonus	commission
1	HULL	300
2	100	HULL
3	HULL	HULL

Q 12 SELECT emp-id,  
 COALESCE (bonus, commission) AS first-available-report  
 FROM Employees-Extra;



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## Customers

Table 5

customer-id	Name	Email
1	Linda	NULL
2	Joseph	Joseph@mail.com
3	Hia	NULL

Q 8

SELECT

Count (email) AS missing-email-count  
 FROM Customers;



missing-email-count

2

Q 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	Hia	No Email

Table 6

## Payments

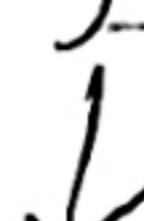
payment-id	method	status
301	Credit	NULL
302	Paypal	Success
303	NULL	Failed

Q 10

SELECT payment-id, status,

IFNULL (method, Unknown) AS method-display-status

FROM Payments;



## Exercise : NULL Functions

① Employees

employee-id	Name	department	salary
1	Alice	HR	5000
2	Bob	IT	NULL
3	Charlie	NULL	7000
4	Dana	Finance	NULL

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-name  
FROM Employees;



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

Table 2

Orders		
order-id	customer-id	delivery-date
101	201	2024-12-01
102	202	NULL
103	NULL	2024-12-03

Q 3 SELECT order-id, customer-id

~~FROM~~ Orders

WHERE customer-id IS NULL;



order-id	customer-id
103	NULL

Q 4

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

student-id	Name	grade
1	Ethan	85
2	Maya	NULL
3	Olivia	90



Q5    SELECT student\_id, name,  
       IF NULL (grade, 0) AS final-grade  
   FROM students;

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

Q6    SELECT  
       COUNT(student\_id) AS not-graded-Count  
   FROM students;

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,  
       IFNULL (discount, 0) AS final-price  
   FROM Products;

Product_id	Name	final-price
S01	Keyboard	0
S02	Mouse	5
S03	Monitor	0

Q 12

emp_id	first-available-resource
1	300
2	100
3	Null

Table 9

Classes

class_id	subject	room
11	Math	Null
12	Science	Lab A
13	English	Null

Q 13

SELECT

Count (~~as~~ class\_id) AS no-room-count  
FROM classes;



no-room-count
2

Table 10

Attendance

student_id	date	status
1	2025-04-01	Null
2	2025-04-01	Present
3	2025-04-01	Absent

Q 14

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

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## Reviews

Table 13

review_id	product_id	comment	rating
1	S01	great product	4
2	S02	Null	Null
3	S03	works fine	3

Q 17

```

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

## Suppliers

Supplier_id	name	phone	alt-phone
1	Global Goods	Null	123456789
2	Best Supplies	987654321	Null
3	Value Source	Null	Null

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```

SELECT supplier_id, name,
    COALESCE (phone, alt-phone, No contact) AS contact-number
FROM Suppliers;
  
```



Supplier_id	name	Contact_number
1	Global Goods	123456789
2	Best Supplies	987654321
3	Value Source	Null

Q11

### Bank - Accounts

account-id	account-type	balance
A1	Savings	Hull
A2	Current	5000
A3	Hull	2000

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

### Projects

project-id	title	start-date	end-date
1	Kleboite Revamp	2025-01-10	Hull
2	Mobile App	Hull	2025-06-01
3	Data Migration	Hull	Hull

Q16 SELECT project-id, title,

IFNULL (start-date, TBD) AS start-display

FROM Projects;



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

