

Exercise

① SELECT employee_id, name, salary_with_default
 IFNULL(salary, 0) AS salary_with_default
 FROM employee;

employee_id	Name	department	salary	← outcome
1	Alice	HR	5000	
2	Bob	IT	0	
3	Charlie	Null	7000	
4	Dara	Finance	0	

② SELECT employee_id, name, department_name.
 IFNULL(department, 'Not Assigned') AS department_name
 FROM employee;

employee_id	Name	departments	← outcome
1	Alice	HR	
2	Bob	IT	
3	Charlie	Not assigned	
4	Dara	Finance	

③ SELECT order_id, customer_id
 FROM orders
 WHERE customer_id IS NULL;

order_id	customer_id	← outcome
103	NULL	

④ SELECT order_id, customer_id, delivery_status
 IFNULL(delivery, 'Pending') AS delivery_status
 FROM orders;

order_id	customer_id	delivery_date	← outcome
101	201	2024-12-01	
102	202	Pending	
103	NULL	2024-12-03	

⑤ SELECT student_id, name, final_grade
 IFNULL(grade, 0) AS final_grade
 FROM students;

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

⑥ SELECT
 COUNT* AS Not-graded-counts
 FROM students

WHERE grade IS NULL;

Not-graded-count	outcome
Maya	

⑦ SELECT product_id, name, final_price
 IFNULL(price*, 0) AS final_price
 FROM products;

product_id	Name	Price	discount	final_price	outcome
501	Keyboard	25	0	25	
502	Mouse	15	5	14.25	
503	Monitor	100	0	100	

⑧ SELECT
 COUNT* AS missing_email-count
 FROM customers

WHERE email IS NULL;

Missing-email-count
1 Linda
3 Nia

⑨ SELECT customer_id, name, email_display
 IFNULL(email, 'no_email') AS email_display
 FROM customers;

customer_id	Name	email
1	Tinda	No_email
2	Joseph	Joseph@gmail.com
3	Nia	No_email

→ outcome

⑩ SELECT payment_id, method_display, status
 IFNULL(method, 'unknown') AS ^{method}method_display
 FROM payments;

Payment-id	method	Status
301	Credit	Null
302	Paypal	Success
303	Unknown	Failed

→ outcome

⑪ SELECT item_id, item_name, quantity_checked
 IFNULL(quantity, 0) AS quantity_checked
 FROM inventory;

item_id	item_name	quantity
1	Pen	0
2	Notebook	150
3	Eraser	0

→ outcome

⑫ SELECT employee_id,
 COALESCE(bonus, commission) AS first_available_reward
 FROM Employee_Extra;

Employee_id	First-available-reward
1	300
2	100
3	Null

→ outcome

(13) SELECT

COUNT As NO_room_comb
FROM classes
WHERE IT IS NULL;

NO_ROOM_COMBO	← outcome
11 Maths	
13 English	

(14) SELECT student_id, date, attendance_Status

IFNULL(attendance, 'Not marked') As attendance_Status
FROM Attendance;

Student-id	Date	Status	← outcome
1	2025-04-01	Not marked	
2	2025-04-01	Present	
3	2025-04-01	Absent	

(15) SELECT account_id,

COALESCE(account_type, 'Unknown') As type_display,

COALESCE(Balance '0') As balance_checked

FROM Banks_Accounts;

account_id	Type-display	balance_checked	← outcome
A1	Saving	0	
A2	Unknown	5000	
A3	Unknown	2000	

(16) SELECT project_id, title, start_date

IFNULL(projects, 'TBD') As start_display

FROM projects.

Project-id	Title	start_date	← outcome
1	Website Revamp	2025-01-15	
2	Mobile App	TBD	
3	Data Migration	2025-06-01	

(17)

SELECT review_id, product_id

COALESCE('comment', 'No comment') AS comment_display,

COALESCE(Rating, '0') AS rating_display

FROM reviews

review_id	product_id	comment	Rating
1	501	Great product	4
2	502	No comment	0
3	503	Work fine	3

← outcome

(18)

SELECT supplier_id, name, contact_number

COALESCE(phone, alt_phone, 'No contact') AS contact_number

FROM suppliers;

supplier_id	Name	contact_number
1	Global Goal	923456789
2	BEST suppliers	987654321
3	Value source	No contact

← outcome

(19)

SELECT user_id, theme, language, timezone

IFNULL(Theme 'light') AS theme_set,

IFNULL(language 'English') AS language_set,

IFNULL(Timezone 'UTC') AS timezone_set;

FROM user_settings;

user_id	theme	language	timezone
1	lights	English	UTC
2	Dark	English	UTC+1
3	lights	English	UTC

← outcome

(20)

SELECT record_id, machine_id,

IFNULL(issue, 'Unknown Issue') AS issue_log,

IFNULL(technician, 'Not Assigned') AS technician_name

FROM maintenance;

Outcome →

record_id	machine_id	issue_log	technician_name
1	M101	overheating	Not Assigned
2	M102	unknown issue	Alex
3	M103	unknown issue	Jenny