

## Exercise 6

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, department\_name, IFNULL ( department\_name, 'Not assigned' ) AS department\_name  
FROM Employees;

Employee

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

Q3 Select order\_id, customer\_id  
FROM Orders

Where Customer\_id ISNULL;

Orders

Order_id	Customer_id
103	NULL

Q4 Select order\_id, customer\_id, ~~coalesce~~  
 Case  
 When delivery\_date IS NULL Then 'Pending'  
 ELSE 'Delivered'  
 END AS delivery\_status  
 FROM orders;

Orders

Order_id	Customer_ID	Delivery_status
101	201	Delivered
102	202	Pending
103	NULL	Delivered

Q5 Select Student\_id, name, coalesce(grade, 0) AS final\_grade  
 FROM Students;

Student_id	Name	final_grade
1	Ethan	85
2	Maya	0
3	Olivia	90

Q6 ~~Select count~~ (if NULL  
 Select count (\*) AS not\_graded\_count  
 FROM Students  
 Having Grade IS NULL;

Result 1	Not_graded_count
	1

Q7 ~~Select name, price, Coalesce (discount, 0) AS~~  
 Select ~~Product\_id, price~~, price - Coalesce (discount, 0) AS  
 final\_price\_after\_discount  
 FROM Products;

Products

product_id	Keyboard	final_price_after_discount
501	Keyboard	25
502	Mouse	10
503	Monitor	100

Q8 Select Count (\*) AS missing\_email\_count  
 FROM customers  
 Where email ISNULL;

Missing\_email\_count  
 2

Q9 Select customer\_id, name, Coalesce (email, 'No email') AS email\_display  
 FROM Customers;

Customer_id	Name	email_display
1	Linda	No email
2	Joseph	joseph@email.com
3	Nia	no email

Q10 Select payment\_id, method Coalesce (method, 'Unknown') AS  
 method\_display, status  
 FROM Payments;

Payment_id	method_display	status
301	Credit	NULL
302	Paypal	Success
303	Unknown	Failed

Q11 Select Item\_id, Item\_name, Coalesce (quantity, 0) AS  
quantity\_checked  
FROM Inventory;

Inventory		
Item_id	Item_name	quantity_checked
1	Pen	0
2	Notebook	150
3	Eraser	0

Q12 Select Employee\_id, Coalesce (bonus, Commission, 0) AS  
first\_available\_reward  
FROM employees\_extra;

Employee_extra	
Employee_id	first_available_reward
1	300
2	100
3	0

Q13 Select Count (\*) AS No\_room\_count  
FROM Classes  
Where Room IS NULL;

No_room_count
2

Q14 Select Student\_id, date, Coalesce (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



Q15 Select account\_id, Coalesce (account\_type, 'Unknown') AS type\_display, Coalesce (balance, 0) AS balance\_checked FROM Bank\_Accounts;

Bank accounts

Account_id	Type_display	Balance_checked
A 1	Savings	0
A 2	Current	5000
A 3	Unknown	2000

Q16 Select project\_id, title, Coalesce (start\_date, 'TBD') AS start\_display FROM projects;

Projects

project_id	title	Start_display
1	Web revamp	2025-01-10
2	Mobi App	TBD
3	Data Mig	TBD

Q17 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_display	rating_display
1	S01	Great	4
2	S02	No comment	0
3	S03	Fine	3

Q18

Q18 Select Supplier\_id, name, Coalesce(phone, alt\_phone, No contact)  
AS contact\_number  
FROM Suppliers

Supplier_id	name	Contact_number
1	Global	123456789
2	Best	987654321
3	Value	No contact

Q19 Select User\_id, Coalesce(theme, 'Light') AS theme\_set,  
Coalesce(Language, 'English') AS language\_set,  
Coalesce(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, Coalesce(issue, 'Unknown issue') AS  
issue\_log, Coalesce(technician, 'Not Assigned') AS technician-  
name  
FROM Maintenance;

Record_id	Machine_id	Issue_log	technician_name
1	M101	Overheating	Not Assigned
2	M202	Unknown issue	Not Assigned
3	M103	Tampered	Alex