Question 1

*//Show all employees with their salary.if salary is Null,display 0.

SELECT employee_id, name, COALESCE(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

Question 2

*//Show employee names with their department,IF department is Null,show Not Assigned "!

SELECT employee_id,name, COALESEE (department, 'Not Assigned')

         As department_name,

FROM Employees;

employee_id	name	department_name
1	Alice	HR
2	Bob	IT
3	Charlie	Not Assigned

Question 3

```
# // Find orders with NULL customer_id using is Null

SELECT order_id, customer_id
FROM orders
WHERE ISNULL(customer_id);
```

order_id	customer_id
103	Null

Question 4

```
* /// show all orders, IF delivery_date is Null. Show 'Pending'.

SELECT order_id, customer_id, COALESCE(delivery_date, 'Pending')
        As delivery_st
FROM orders;
```

Order_id	customer_id	delivery_status
101	201	2024-12-01
102	202	Pending
103	Null	2024-12-03

Question 5

```
# // show all students and their grades. Replace Null with O ///

SELECT student_id, name, COALESCE(grade, O) As final_grade
FROM students;
```

Student_id	name	Final_grade
1	Ethan	85
2	Maya	0
3	Olivia	90

Question 6

*// count students who haven't been graded //.

```sql
SELECT COUNT(*) As not_graded_count
FROM students
WHERE grade Is Null;
```

Not-graded-count
1

Question 7

*Show product name, price and final price After discount (assume 0 if discount is Null)

```sql
SELECT product_id, name, price - COALESCE(discount, 0) As
       Final_price
FROM Products;
```

product_id	name	Final_price
501	keyboard	25
502	Mouse	10
503	Monitor	100

Question 8

*// Count how many customers have no email

```sql
SELECT COUNT(*) As missing_email_count
FROM customers
WHERE email IS NULL;
```

missing-email-count
2

Question 9

*/show all customers with email. if NULL, display "No Email"//

```
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@mail.com
3	Nia	No Email

Question 10

*// show payment details with method replaced by "unknown" if NULL

```
SELECT Payment_id, COALESCE (method, 'unknown') As Method_display,
        status
FROM Payments;
```

payment_id	Method_display	status
301	Credit	NULL
302	Paypal	Success
303	Unknown	Failed

Question 11

*// show items and their quantity (0 if NULL)

```
SELECT item_id, item_name, COALESCE (quantity, 0)
        As quantity_checked
FROM Inventory;
```

item_id	item_name	quantity-checked
1	pen	0
2	Notebook	150
3	Eraser	0

Question 12

#// show employee ID & first available value among bonus or commision

```sql
SELECT emp-id, COALESLE (bonus, commission) AS first_available
    reward
FROM Employees-Extra;
```

emp-id	First_available_reward
1	300
2	100
3	Null

Question 13

#// count classes that dont have room assigned.

```sql
SELECT COUNT(*) AS no-room_count
FROM classes
WHERE room IS NULL;
```

no-room_count
2

Question 14

/// show attendance records with status. Replace Null with "Not Marked";

```sql
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

Question 15

*// Show account ID, account_type (or 'unknown') & balance (or 0)

```sql
SELECT  account_id, COALESCE (account_type, 'unknown') As
        type-display, COALESCE (balance, 0) As balance_checked
FROM Bank_Accounts;
```

account_id	type-display	balance_checked
A1	Savings	0
A2	Current	5000
A3	Unknown	2000

Question 16

*// show all projects with a start date. If start_date is Null, display 'TBD'.

```sql
SELECT projectid, title, COALESCE(start_date, 'TBD')As start_display
FROM Projects;
```

Question 20

*// show maintenance log with

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	M102	Unknown Issue	Not Assigned
3	M103	Jammed	Alex

Question 19

SELECT user_id, COALESCE (theme, 'Light') As theme_set, COALESCE
    (language, 'English') As langmage_set, COALESCE (timezone,
    'UTC') As timezone_set)

FROM user_settings;

user_id	theme_set	langauge_set	timezone_set
1	Light	English	UTC
2	Dark	English	UTC+1
3	Light	English	UTC

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

Question 17

*// Display reviews showing comment (or 'NoComment') & rating(or 0)

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 product	4
2	S02	No comment	0
3	S03	works fine	3

Question 18

*//show the supplier contact number. use COALESCE (phone, alt-phone, 'No contact')//

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	Valuesource	No contact