EXERCISE 6

NULL FUNCTION EXERCISE

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,
            COALESCE
            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

Q3: SELECT order-id,   or   SELECT order-id,
            customer-id   customer-id
      FROM orders   FROM orders
      WHERE customer-id IS NULL;   WHERE ISNULL (customer-id, 1) = ;

order-id	customer-id
103	NULL

Q4: SELECT order-id,
            customer-id,
            COALESCE
            IS NULL (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

Q5: SELECT student-id,

name,
IFNULL
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(*) AS not-graded-count

FROM students

WHERE grade IS NULL;

not-graded-count
1

MS2

~~not~~

product id,
Q7: SELECT name AS product-name,

MS2 ~~price,~~

IFNULL
price - COALESCE (discount, 0) AS final-price

FROM products;

Product-id	Product-name	Price	Final-Price
501	Keyboard	25	25
502	Mouse	15	10
503	Monitor	100	100

MS2

Q8: SELECT COUNT(*) AS missing-email-count

FROM customers

WHERE email IS NULL;

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@mail.com
3	Nia	No email

Q10: 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

Q11: SELECT item-id,
          item-name,
          IFNULL
          COALESCE (quantity, 0) AS quantity checked
     FROM inventory;

item-id	item-name	quantity checked
1	Pen	0
2	Notebook	150
3	Eraser	0

Q12: SELECT emp-id,
          COALESCE (bonus, commission) AS first-available-reward
     FROM employees - extra;

emp-id	First-available reward
1	300
2	100
3	NULL 0

MS2

Q13: SELECT COUNT(*) AS no-room-cont
        FROM classes
        WHERE room is NULLg

no-room-cont
2

Q14: SELECT
        student-id,
        date,
        COALESCE (status, 'NotMarked') AS attendance-status
        FROM Attendance g

OR   SELECT student-id, date,
        ~~date~~
        IF NULL (status, 'Not Marked') AS attendance-status
        FROM Attendance g

student-id	date	Attendance-status
1	2026-04-01	Not Marked
2	2025-01-01	Present ~~Absent~~ MS2
3	2025-04-10	Absent

Q15: SELECT account-id,
        COALESCE (account-type, 'Unknown') AS type-display,
        COALESCE (balance, 0) AS balance-checked
        FROM Bank Accounts g

OR   SELECT account-id,
        IFNULL (account-type, 'Unknown') AS type-display,
        IFNULL (balance, 0) AS balance-checked
        FROM Bank accounts g

account-id	type-display ~~Account type~~	balance-checked
A1	Savings	0
A2	Current	5050
A3	Unknown	~~2025~~ 2000 MS2

Q16: SELECT project-id,
        title,
        COALESCE
        IF NULL (start-date, 'TBD') AS start-display
        FROM projects
        WHERE start-date is not NULL g

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

Q18. 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

Q17. SELECT review-id,
   product-id,
   IFNULL (comment, 'No comment') AS comment-display,
   IFNULL (rating, 0) AS rating-display

   FROM REVIEWS;

OR 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	501	Great Product	4
2	502	Not comment	0
3	503	Works fine	3

Q19. SELECT user-id,
   COALESCE (theme, 'Light') AS theme-set,
   COALESCE (language, 'English') AS language-set,
   COALESCE (time-zone, 'UTC') AS time-zone-set

   FROM user-settings;

User-id	Theme-set	Language-set	Time-zone-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	M102	Unknown Issue	Not Assigned
3	M103	Jammed	Alex