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Task to complete

- ① Null Functions Exercise
  - ② Date Functions Exercise
  - ③ Revise the work covered this week.
- due Monday

Email - Handwritten

09/10/2025

Exercise 2.1

Q1 SELECT ~~Name~~ EmployeeID, Name  
IFNULL (Salary, 0) AS Salary

Employee ID	Name	Salary
1	Alice	5000
2	Bob	0
3	Charlie	7000
4	Dana	0

Q2 SELECT ~~Name~~ EmployeeID, Name  
IFNULL (Department, 'Not Assigned') AS Department

Employee ID	Name	Department
1	Alice	HR
2	Bob	IT
3	Charlie	Not Assigned
4	Dana	Finance



Q3 SELECT Order-ID, Customer-ID  
FROM orders  
WHERE Customer-ID IS NULL

Order-ID	Customer-ID
103	Null

Q4 SELECT Order-ID, Customer-ID  
IFNULL (delivery-Date, 'Pending') AS delivery-Date

Order-ID	Customer-ID	delivery-date
101	201	2024-12-01
102	202	Pending
103	Null	2024-12-03

Q5 SELECT Student-ID, name  
IFNULL (Final-grade, 0) AS Final-grade

Student-ID	Name	Final-grade
1	Ethan	85
2	Maya	0
3	Olivia	40

Q6 SELECT Count (Grade is Null) AS Not-graded-Count

Not-graded-Count
1

Q7 SELECT ~~Product, Name~~ Product-ID, Name  
Final Price - discount AS Final-Price

FROM Products

Product-ID	Name	Final price
501	Keyboard	25
502	Mouse	10
503	Monitor	100



Q8 SELECT Count(email IS Null) AS missing-email-count  
FROM Customers

missing-email-count
2

Q9 SELECT Customer-ID, Name, ~~email-display~~  
IFNull (Email, 'No Email') AS Email-display  
FROM Customers

Customer-ID	Name	email-display
1	Linda	No-Email
2	Joseph	No-Email
3	Nia	No-Email

Q10 SELECT Payment-ID, Status,  
IFNull (Method, Unknown) AS Method-display  
FROM Payments

Payment-ID	Method-display	Status
301	Credit	Null
302	PayPal	Success
303	Unknown	Failed

Q11 SELECT Item-ID, Item-name  
FROM Items IFNull (Quantity, 0) AS quantity-checked

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 Employee-Extra



emp-Id	First - available - reward
1	300
2	100
3	Null

Q.13 SELECT ~~can~~ Count (room IS NULL) AS No - room - Count  
FROM Classes

No - room - Count
2

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

Q.15 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	Saving	0
A2	Current	5000
A3	Unknown	2000



Q16 SELECT project-ID, title  
IFNULL(start-date, 'TBD') AS start-display  
FROM Projects;

Project-ID	title	Start-date
1	Website Revamp	2025-01-10
2	Mobile App	TBD
3	Data migration	TBD

Q17 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	501	Great Product	4
2	502	No Comment	0
3	503	Works Fine	3

Q.18 SELECT Supplier-ID, Name,  
Coalesce(phone, alt-phone, 'No contact') AS  
~~Contact~~ Contact-Number

FROM Suppliers;

Supplier-ID	Name	Contact-Number
1	Global Goods	123456789
2	Best Supplies	987654321
3	Value Sources	No Contact

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

Q.10 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-name
1	M101	Overheating	Not Assigned
2	M102	Unknown Issue	Not Assigned
3	M103	Jammed	ALEX

Date Functions

Q1 SELECT emp-ID, name, hire-date  
DateADD (Month, 6, hire-date) AS hire-plus-6-months

FROM Employees

emp-ID	Name	hire-date	hire-plus-6-months
1	Alice	2020-01-15	2020-07-15
2	Bob	2021-06-10	<del>2021-10</del> 2021-12-10
3	Charlie	2023-03-22	2023-09-22

Q2 SELECT Student-ID, name,  
DateDiff (day, 'dob', '2025-10-08') AS age-in-days

FROM Students

Student-ID	Name	age-in-days
101	Maya	7364
102	Ethan	7614
103	Sienna	7147