Modise L.E.

SOL JOIN Exercises: 4

Question of - inner young

Select A. Student-Id, Student-name, grade,

From Student As A

INNER JOIN grades ASB

ON A. Student-id = B. Student-id;

| Student_id | student. Name | grade |
|------------|---------------|-------|
| 2 | Bob | B |
| 3 | charlie | A so |

Question 2 - Lest join

SELECT A. emp-id, emp-name, depart-name

FRom employees As A

Left JOIN department As B

ON A.emp_id = B.emp_id;

| emp_id | emp-name | dept_name |
|--------|----------|-----------|
| 1 | John | NULL |
| 5 | Lis9 | HR |
| 3 | mike . | Nul |

Question 3- FULL OUTER JOIN

SELECT COALESCE (p.product-id, s.product-id) As product-id , product-name,

From produt p siquantity)

FULL OUTER JOIN sales ON p. product_id = 5. product_id;

| product_id | Product-mame | quantity |
|------------|--------------|----------|
| 1 | haptop | NWLL |
| 2 | Mouse | 50 |
| 3 | key board | NULL |

Question 4: Left Join + case

SELECT O. order_id; O. customer_id, o. amount, c. customer_name,

ELSE (Returning customer)
END AS Customer-type

From orders o

Left Join customers & ON o. custumer-id = c. customer-id;

| order_id | customer_id | amount | customer_name | customer_bype |
|----------|-------------|--------|---------------|-------------------|
| | 101 | 500 | Paul & | Returning custome |
| 2 | 102 | 300 | Savah | |
| 3 | 105 | 0 | Null | New Customer |

Quest-ron S: LEFT + GROUB BY + SUM

SELECT r.region-id, r.region-name, COALESCE (Sum (s. amount), 0)
As total-sales

FROM regions r

Left JOIN SALE & ON r.region-id = S.region-id

GROUP BY riregion id , r. region name;

| jion_id | region. name | total_sales |
|---------|--------------|-------------|
| | North | 2000 |
| 2 | South | |
| 3 | | 3500 |
| | East | 0 |

Question b - Lete Join + CASE

SELECT S. Student-id, s. name, a.days-present,

CASE

WHEN a.days-present IS NULL THEN POOR ALLENTS
WHEN a.days-present >= 15 THEN (EXCELLENT)
WHEN a.days-present >= 10 THEN Needs improvement
ELSE Poor Altendance)

End As attendance - Status

From students s

LEFT JOIN attendance a ON s. Student-id = a. Student-id;

| Student-id | Name | day-present | attendance_status |
|------------|---------|-------------|-------------------|
| \ | Alice | 18 | Excellent |
| 2 | Bob | S | Poor Aftendance |
| 3 | charlie | NULC CON | Poor Attendance |

Question 7 - INNER JOIN + COUNT + GROUBY BY

FROM projects p

INNER JOINT Lask to ON p. project_id = t. project_id

BROUP By p. produte_id, p.name;

| Propect-id | name | task-count |
|------------|------------|-----------------|
| I water d | Al chalbot | 2 |
| 2 | website | - 1/8/1/11 - 11 |

Question 8 - FULL OUTER JOIN + CASE + WHERE

SELECT COALESEE Lo. cust-id; r. cust-id) As cust-id; o. ovder-total,
r. return-total;

CASE

ELSE (No Return) NOT NULL THEN (Returned)

END As return-Status

Rom order o

| cust-id | order-total | return-l-stal | return_8boutus |
|---------|-------------|---------------|----------------|
| 11 | 120 | 20 | Leturned |
| 13 | 250 | NULL | No return |
| 13 | 180 | NULL | No return |

Question 9 - Left TODINT COUNT + ORBER BY

FROM user 4

LEFT JOINT logins 1 ON u.user_id=1.user_id

GROUB By u.user_id, u.name

ORDER BY login - count DESC;

| 4 Ser_id | Name | login-count |
|----------|--------|-----------------|
| 2 | Gloria | ້ວ |
| 3 | store | MULTINEL HAS OF |
| 1], | Nelson | 11/210-611 |

Question 10 - Left JOIN+ CASE + CAPER BY

SELECT E. Leacher_id, t, Leacher_name,

CASE

WHEN S. Subject_name Is NULL THEN No Subject Assigned!
ELSE S. Subject_name

END As subject name

From teachers t

DROER BY t. teacher-noune ASC;

| teacher name | C.L. I |
|--------------|--|
| Mr. Dlamini | Subject name |
| | No Subject Assigned |
| Mr Hlongwane | Math Science |
| | No Subject Assigned |
| | Mr. Dlamini Mr Hlongwane Mr Hlongwane Ms. N daba |

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