

Question 1

(SQL Joins)

```
SELECT Student-ID, Student-name, grade  
FROM Students AS A  
INNER Join Grades AS B  
ON AS A.Student-ID = B.Student-ID
```

Student-ID	Student-name	grade
2	Bob	B
3	Charlie	A

✓

Question 2

```
SELECT emp-ID, emp-name, department  
FROM employees AS A  
LEFT Join department AS B  
ON A.employees =  
ON A.emp-ID = B.emp-ID
```

emp-ID	emp-name	dept-name
1	John	NULL
2	Lisa	HR
3	Mike	NULL

✓

?) question 3

```
SELECT Product-ID, Product-name, quantity  
FROM Products AS A  
Full outer Join Sales AS B  
ON A.Product-ID = B.Product-ID
```

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Product-ID	Product-name	Quantity
1	Laptop	Null
2	Mouse	50
3	Keyboard	Null
4	Null	30

✓

Question 4

```

SELECT order-ID, customer-ID, amount, customer-ID
Case
WHEN Price = 0 THEN "New Customer"
WHEN Price > 0 THEN "Returning Customer"
END AS Customer-type
FROM orders AS A
& LEFT JOIN customers AS B
ON A.customer-ID = B.customer-ID
    
```

Order-ID	Customer-ID	Amount	Customername	Customer-type
1	101	500	Paul	Returning
2	102	300	Sarah	Returning
3	105	0	Null	New

✓

Question 5

```

SELECT region-ID, region-name
& Sum(amount) AS total-Sales
FROM sales AS A
LEFT JOIN regions AS B
ON A.region-ID = B.region-ID
    
```

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Region-ID	Region-Name	Total-Sales
1	North	2000
2	South	3500
4	Null	1000

Question 6

SELECT

Student-ID, Name, days-present
Case

When day-present < 10 THEN "Poor attendance"

WHEN day-present IS between 10 AND 15 Then "needs Improvement")
ELSE "Excellent" END AS attendance_Status

FROM

LEFT Join

ON

Student AS A

Attendance AS B

Student AS Student

A.Student-ID = B.Student-ID

✓

Student-ID	Name	days-present	attendance_Status
+	Bob		
1	Alice	18	Excellent
2	Bob	5	Poor Attendance
3	Charlie	Null	Null

Question 7

SELECT

SELECT Project-ID, Name

Count(task-ID) AS task-count

Projects AS A

Tasks AS B

Project AS A.Project-ID = B.Task-ID

Group By

A.Project-ID, Name.

Project-ID	Name	task
1	AI Chatbot	2
2	Website	1

Question 8

SELECT CUST-ID, ORDER-TOTAL, & RETURN-TOTAL
 CASE
 WHEN return-total is not Null Then "Returned"
 ELSE "No Return"
 FROM Order AS A
 Full Outer Join returns AS B
 ON A.CUST-ID = B.CUST-ID
 WHERE ORDER-BALANCE > 100

CUST-ID	ORDER-TOTAL	RETURN-TOTAL	RETURN-STATUS
11	120	20	Returned
12	250	Null	No Return
13	180	Null	No Return

Question 9

SELECT USER-ID, NAME
 COUNT(LOG-IN-DATE) AS LOGIN-COUNT
 FROM users AS A
 LEFT JOIN logins AS B
 ON A.USER-ID = B.USER-ID
 GROUP BY A.USER-ID, NAME
 ORDER BY LOGIN-COUNT DESC

USER-ID	NAME	LOGIN-COUNT
2	Gloria	2
3	Steve	1
1	Nelson	0

Question 10

SELECT Teacher-ID, Teacher name, Subject-name
CASE
WHEN Coalesce(Subject-name, "No Subject Assigned")
AS Subject-name
teacher AS A
& LEFT Join Subject AS B
ON A.teacher-ID = B.teacher-ID
Order By teacher-name ASC

teach

teacher-ID	teacher-name	Subject-name
3	Mr Dlamini	No Subject Assigned
1	Mr Hlongwane	Maths
1	Mr Hlongwane	Science
2	Mr Ndaba	No Subject Assigned