LEFT JOIN SQL Practice Questions with Answers

Table 1: Dealers
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dealer_id | dealer_name | location
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1 | Elite Motors | Mumbai
2 | Speed Wheels | Delhi
3 | Auto Hub | Bangalore
4 | City Cars | Chennai
5 | Luxury Drive | Hyderabad

Table 2: Sales
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sale_id | car_model | dealer_id | sale_amount | sale_date
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101 | BMW X1 | 1 | 4200000 | 2025-06-12
102 | BMW X5 | 2 | 8500000 | 2025-06-18
103 | BMW 3 Series | 1 | 5200000 | 2025-07-02
104 | BMW X3 | 4 | 6400000 | 2025-07-10
105 | BMW 7 Series | 2 | 12000000 | 2025-08-01
106 | BMW X6 | 3 | 9800000 | 2025-08-12

1. Display all dealers and the cars they sold
- SELECT dealer_name, car_model FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id;

2. Show all dealers, even if they didn't sell any cars (replace NULL with 'No Sale')
- SELECT dealer_name, COALESCE(car_model, 'No Sale') AS car_model FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id;

3. Display car models along with their dealer names and locations
- SELECT car_model, dealer_name, location FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id;

4. Find all dealers who haven't made any sales yet
- SELECT dealer_name FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id WHERE sale_id IS NULL;

5. List each dealer's name and total sales amount

- SELECT dealer_name, SUM(sale_amount) AS total_sales FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id GROUP BY dealer_name;

6. Display all cars sold by 'Speed Wheels'

- SELECT car_model, sale_amount FROM Dealers JOIN Sales ON Dealers.dealer_id = Sales.dealer_id WHERE dealer_name = 'Speed Wheels';

7. Show dealer names with car models and sale dates (sorted by sale_date)

- SELECT dealer_name, car_model, sale_date FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id ORDER BY sale_date;

8. Find dealers and their average sale amount

- SELECT dealer_name, AVG(sale_amount) AS avg_sale FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id GROUP BY dealer_name;

9. Show dealer names with the count of cars sold

- SELECT dealer_name, COUNT(sale_id) AS cars_sold FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id GROUP BY dealer_name;

10. Display dealer name, car model, and sale amount for sales above ₹8,000,000

- SELECT dealer_name, car_model, sale_amount FROM Dealers JOIN Sales ON Dealers.dealer_id = Sales.dealer_id WHERE sale_amount > 8000000;

11. List all car models and replace dealer name with 'Not Assigned' if NULL

- SELECT COALESCE(dealer_name, 'Not Assigned') AS dealer_name, car_model FROM Sales LEFT JOIN Dealers ON Sales.dealer_id = Dealers.dealer_id;

12. Show dealer names and cars sold in July 2025

- SELECT dealer_name, car_model FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id WHERE MONTH(sale_date)=7 AND YEAR(sale_date)=2025;

13. Find dealers who sold more than one car

- SELECT dealer_name FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id GROUP BY dealer_name HAVING COUNT(sale_id) > 1;

14. Display all dealers with their total and average sales using LEFT JOIN and GROUP BY

- SELECT dealer_name, SUM(sale_amount) AS total_sales, AVG(sale_amount) AS avg_sales FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id GROUP BY dealer_name;

15. Show all dealers along with their latest sale date (or 'No Sales Yet' if none)

- SELECT dealer_name, COALESCE(MAX(sale_date), 'No Sales Yet') AS latest_sale FROM Dealers LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id GROUP BY dealer_name;