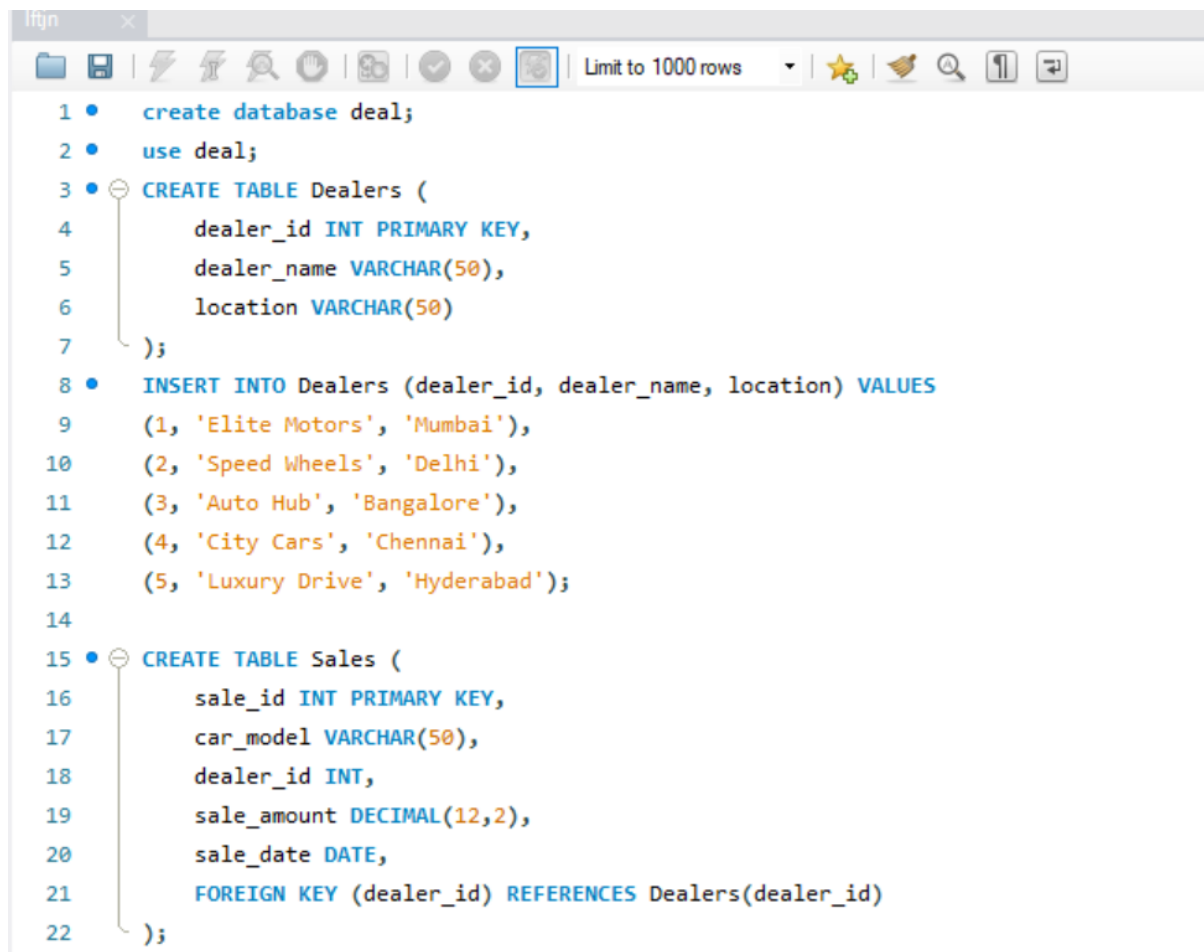


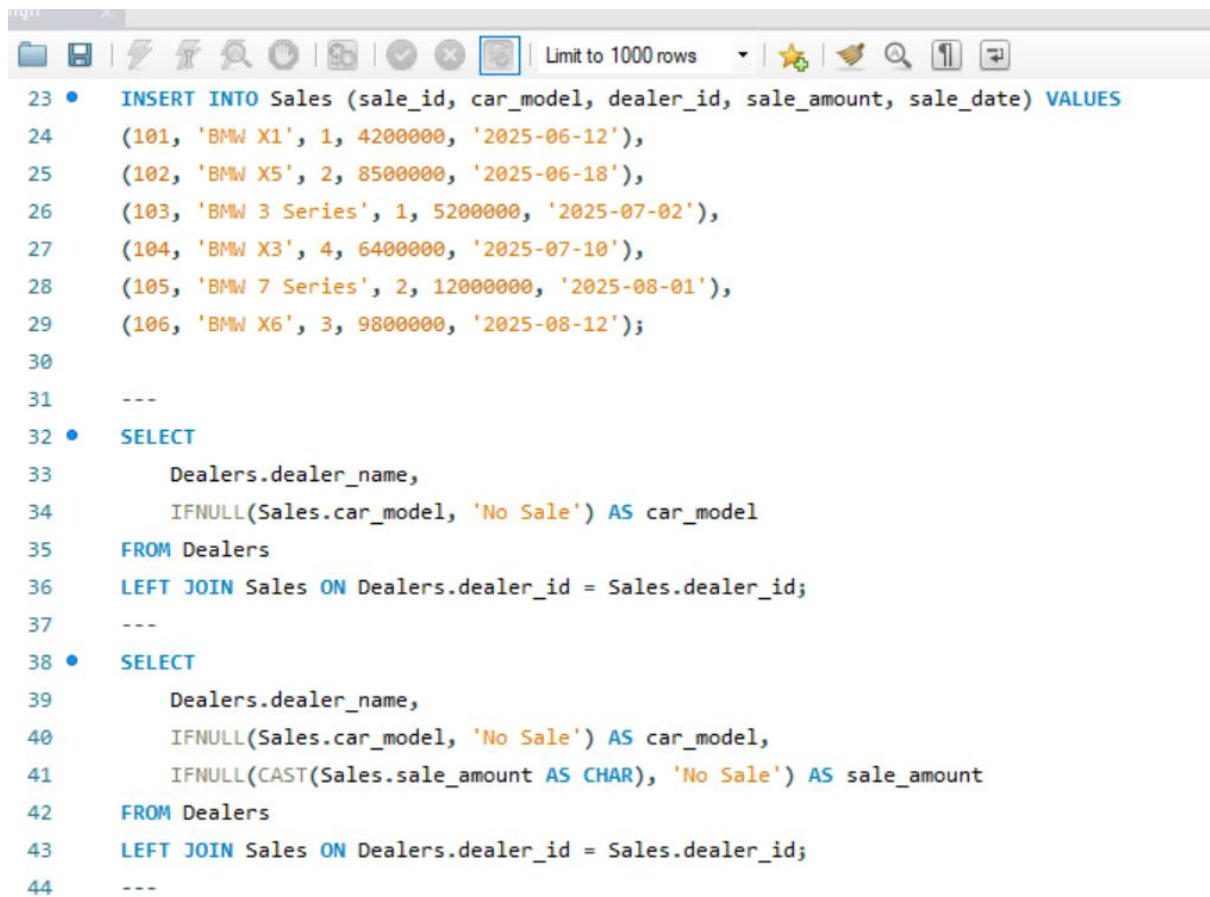
JOINS

LEFT JOIN



The screenshot shows a SQL IDE window titled 'lftjn'. The toolbar includes icons for file operations, execution, and a 'Limit to 1000 rows' dropdown. The SQL script is as follows:

```
1 • create database deal;
2 • use deal;
3 • CREATE TABLE Dealers (
4     dealer_id INT PRIMARY KEY,
5     dealer_name VARCHAR(50),
6     location VARCHAR(50)
7 );
8 • INSERT INTO Dealers (dealer_id, dealer_name, location) VALUES
9     (1, 'Elite Motors', 'Mumbai'),
10    (2, 'Speed Wheels', 'Delhi'),
11    (3, 'Auto Hub', 'Bangalore'),
12    (4, 'City Cars', 'Chennai'),
13    (5, 'Luxury Drive', 'Hyderabad');
14
15 • CREATE TABLE Sales (
16     sale_id INT PRIMARY KEY,
17     car_model VARCHAR(50),
18     dealer_id INT,
19     sale_amount DECIMAL(12,2),
20     sale_date DATE,
21     FOREIGN KEY (dealer_id) REFERENCES Dealers(dealer_id)
22 );
```



The screenshot shows a SQL IDE window with a toolbar at the top. The toolbar includes icons for file operations (folder, save, undo, redo, delete), editing (copy, paste, find, replace), and execution (run, stop, refresh). A dropdown menu next to the run icon shows 'Limit to 1000 rows'. The main area contains SQL code with line numbers 23 through 44. The code consists of an INSERT statement followed by two SELECT statements, each preceded by a blue bullet point.

```
23 • INSERT INTO Sales (sale_id, car_model, dealer_id, sale_amount, sale_date) VALUES
24     (101, 'BMW X1', 1, 4200000, '2025-06-12'),
25     (102, 'BMW X5', 2, 8500000, '2025-06-18'),
26     (103, 'BMW 3 Series', 1, 5200000, '2025-07-02'),
27     (104, 'BMW X3', 4, 6400000, '2025-07-10'),
28     (105, 'BMW 7 Series', 2, 12000000, '2025-08-01'),
29     (106, 'BMW X6', 3, 9800000, '2025-08-12');
30
31 ---
32 • SELECT
33     Dealers.dealer_name,
34     IFNULL(Sales.car_model, 'No Sale') AS car_model
35 FROM Dealers
36 LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id;
37 ---
38 • SELECT
39     Dealers.dealer_name,
40     IFNULL(Sales.car_model, 'No Sale') AS car_model,
41     IFNULL(CAST(Sales.sale_amount AS CHAR), 'No Sale') AS sale_amount
42 FROM Dealers
43 LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id;
44 ---
```

- `SELECT`
`Dealers.dealer_name,`
`IFNULL(Sales.car_model, 'No Sale') AS car_model,`
`IFNULL(CAST(Sales.sale_amount AS CHAR), 'No Sale') AS sale_amount`
`FROM Dealers`
`LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id;`
`---`
 - `SELECT`
`Sales.car_model,`
`Dealers.dealer_name,`
`Dealers.location`
`FROM Sales`
`JOIN Dealers ON Sales.dealer_id = Dealers.dealer_id;`
`---`
 - `SELECT`
`Dealers.dealer_name,`
`Dealers.location`
`FROM Dealers`
`LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id`
`WHERE Sales.sale_id IS NULL;`
`---`
 - `SELECT`
`Dealers.dealer_name,`
`Dealers.location`
`FROM Dealers`
`LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id`
`WHERE Sales.sale_id IS NULL;`
`---`
 - `SELECT`
`Dealers.dealer_name,`
`SUM(Sales.sale_amount) AS total_sales`
`FROM Dealers`
`LEFT JOIN Sales ON Dealers.dealer_id = Sales.dealer_id`
`GROUP BY Dealers.dealer_name;`
`---`
 - `SELECT`
`Sales.car_model,`
`Sales.sale_amount,`
`Sales.sale_date`
`FROM Sales`
`JOIN Dealers ON Sales.dealer_id = Dealers.dealer_id`
`WHERE Dealers.dealer_name = 'Speed Wheels';`
`---`
-

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

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

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