


LEFT JOIN

Result Grid			
Filter Rows: <input type="text"/>			
	dealer_id	dealer_name	location
▶	1	Elite Motors	Mumbai
	2	Speed Wheels	Delhi
	3	Auto Hub	Bangalore
	4	City Cars	Chennai
	5	Luxury Drive	Hyderabad
*	NULL	NULL	NULL

	sale_id	car_model	dealer_id	sale_amount	sale_date
▶	101	BMW X1	1	4200000.00	2025-06-12
	102	BMW X5	2	8500000.00	2025-06-18
	103	BMW 3 Series	1	5200000.00	2025-07-02
	104	BMW X3	4	6400000.00	2025-07-10
	105	BMW 7 Series	2	12000000.00	2025-08-01
	106	BMW X6	3	9800000.00	2025-08-12
*	NULL	NULL	NULL	NULL	NULL

1.Display all dealers and the cars they sold.

```
3 • select dealer_name,car_model from Dealers
1 left join Sales
2 on Dealers.dealer_id=Sales.dealer_id;
```

Result Grid	
Filter Rows: <input type="text"/>	
Export: 	Wrap Cel
dealer_name	car_model
Elite Motors	BMW X1
Elite Motors	BMW 3 Series
Speed Wheels	BMW X5
Speed Wheels	BMW 7 Series
Auto Hub	BMW X6
City Cars	BMW X3
Luxury Drive	NULL

2. Show all dealers, even if they didn't sell any cars(replace NULL with 'No Sale').

```
284 • select *, ifnull(car_model,"No Sale")
285 from Dealers
286 left join Sales
287 using(dealer_id);
```

Result Grid Filter Rows: Export: Wrap Cell Content:								
	dealer_id	dealer_name	location	sale_id	car_model	sale_amount	sale_date	ifnull(car_model,"No Sale")
▶	1	Elite Motors	Mumbai	101	BMW X1	4200000.00	2025-06-12	BMW X1
	1	Elite Motors	Mumbai	103	BMW 3 Series	5200000.00	2025-07-02	BMW 3 Series
	2	Speed Wheels	Delhi	102	BMW X5	8500000.00	2025-06-18	BMW X5
	2	Speed Wheels	Delhi	105	BMW 7 Series	12000000.00	2025-08-01	BMW 7 Series
	3	Auto Hub	Bangalore	106	BMW X6	9800000.00	2025-08-12	BMW X6
	4	City Cars	Chennai	104	BMW X3	6400000.00	2025-07-10	BMW X3
	5	Luxury Drive	Hyderabad	NULL	NULL	NULL	NULL	No Sale

3. Display car models along with their dealer names and locations.

```
290 • select Sales.car_model,Dealers.dealer_name,location
291 from Dealers
292 left join Sales
293 using(dealer_id);
```

Result Grid Filter Rows: Export: Wrap Cell Co			
	car_model	dealer_name	location
▶	BMW X1	Elite Motors	Mumbai
	BMW 3 Series	Elite Motors	Mumbai
	BMW X5	Speed Wheels	Delhi
	BMW 7 Series	Speed Wheels	Delhi
	BMW X6	Auto Hub	Bangalore
	BMW X3	City Cars	Chennai
	NULL	Luxury Drive	Hyderabad

4. Find all dealers who haven't made any sales yet.

```
294
295 • select Dealers.dealer_name
296     from Dealers
297     left join Sales
298     using(dealer_id) where Sales.sale_id is null;
```

Result Grid		Filter Rows:	Export:	Wrap Cell
dealer_name				
	Luxury Drive			

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

```
299
300 • select Dealers.dealer_name, SUM(Sales.sale_amount) as totalamt
301     from Dealers
302     left join Sales
303     using(dealer_id) group by Dealers.dealer_name;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
dealer_name totalamt					
▶	Elite Motors	9400000.00			
	Speed Wheels	20500000.00			
	Auto Hub	9800000.00			
	City Cars	6400000.00			
	Luxury Drive	NULL			

6. Display all cars sold by 'Speed Wheels'.

```
05 • select Sales.car_model
06     from Dealers
07     left join Sales
08     using(dealer_id) where dealer_name = 'Speed Wheels';
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
car_model				
	BMW X5			
	BMW 7 Series			

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

09

```
10 • select dealer_name,car_model,sale_date
11 from Dealers
12 left join Sales
13 using(dealer_id) order by sale_date asc;
```

dealer_name	car_model	sale_date
Luxury Drive	NULL	NULL
Elite Motors	BMW X1	2025-06-12
Speed Wheels	BMW X5	2025-06-18
Elite Motors	BMW 3 Series	2025-07-02
City Cars	BMW X3	2025-07-10
Speed Wheels	BMW 7 Series	2025-08-01
Auto Hub	BMW X6	2025-08-12

8. Find dealers and their average sale amount.

```
17 • select dealer_name,avg(sale_amount) as avgsaleamt
18 from Dealers
19 left join Sales
20 using(dealer_id) group by dealer_name;
```

dealer_name	avgsaleamt
Elite Motors	4700000.000000
Speed Wheels	10250000.000000
Auto Hub	9800000.000000
City Cars	6400000.000000
Luxury Drive	NULL

9. Show dealer names with the count of cars sold.

```
322 • select dealer_name, count(car_model) as carsold
323 from Dealers
324 left join Sales
325 using(dealer_id) group by dealer_name;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Cont
dealer_name	carsold			
Elite Motors	2			
Speed Wheels	2			
Auto Hub	1			
City Cars	1			
Luxury Drive	0			

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

```
27 • select dealer_name, car_model, sale_amount as saleamt
28 from Dealers
29 left join Sales
30 using(dealer_id) WHERE sale_amount > 8000000;
31
```

Result Grid			Filter Rows:	Export:	Wrap Cell Conte
dealer_name	car_model	saleamt			
Speed Wheels	BMW X5	8500000.00			
Speed Wheels	BMW 7 Series	12000000.00			
Auto Hub	BMW X6	9800000.00			

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

```
332 • select dealer_name,ifnull(car_model,"Not Assigned") as car_model
333     from Dealers
334     left join Sales
335     using (dealer_id);
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
dealer_name	car_model			
Elite Motors	BMW X1			
Elite Motors	BMW 3 Series			
Speed Wheels	BMW X5			
Speed Wheels	BMW 7 Series			
Auto Hub	BMW X6			
City Cars	BMW X3			
Luxury Drive	Not Assigned			

12. Show dealer names and cars sold in July 2025.

```
337
338 • select dealer_name,car_model,sale_date
339     from Dealers
340     left join Sales
341     using (dealer_id)
342     where month(sale_date)=7 and year(sale_date)=2025;
```

Result Grid				Filter Rows:	Export:	Wrap Cell Content:
dealer_name	car_model	sale_date				
Elite Motors	BMW 3 Series	2025-07-02				
City Cars	BMW X3	2025-07-10				

13. Find dealers who sold more than one car.

```
344 • select dealer_name,count(dealer_id) as totalsold
345     from Dealers left join Sales
346     using (dealer_id) group by dealer_name
347     having totalsold>1;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Co
dealer_name	totalsold				
Elite Motors	2				
Speed Wheels	2				

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

```
349 • select dealer_name,ifnull(sum(sale_amount),0) as total_sales,  
350      ifnull(avg(sale_amount),0) as average_sales  
351      from Dealers left join Sales using (dealer_id)  
352      group by dealer_name;
```

dealer_name	total_sales	average_sales
Elite Motors	9400000.00	4700000.000000
Speed Wheels	20500000.00	10250000.000000
Auto Hub	9800000.00	9800000.000000
City Cars	6400000.00	6400000.000000
Luxury Drive	0.00	0.000000

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

```
i3  
i4 • select dealer_name,ifnull(max(sale_date),"No Sales") as latestsales  
i5      from Dealers  
i6      left join Sales  
i7      using (dealer_id) group by dealer_name;
```

dealer_name	latestsales
Elite Motors	2025-07-02
Speed Wheels	2025-08-01
Auto Hub	2025-08-12
City Cars	2025-07-10
Luxury Drive	No Sales