

Assignment-2

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Assignment 2: Craft a query using an INNER JOIN to combine 'orders' and 'customers' tables for customers in a specified region, and a LEFT JOIN to display all customers including those without orders.

Customer and Order Table Data

```
mysql> select * from customers;
```

customer_id	customer_name	email	city	region	phone
1	Alice Johnson	alice.johnson@example.com	Los Angeles	West	987-654-3210
2	Bob Smith	bob.smith@example.com	Chicago	Midwest	123-987-6543
3	Charlie Brown	charlie.brown@example.com	New York	East	456-789-1230
4	Diana Prince	diana.prince@example.com	San Francisco	West	789-123-4567
5	Ethan Hunt	ethan.hunt@example.com	Miami	South	321-654-9870
6	Fiona Green	fiona.green@example.com	Seattle	West	654-321-7890

6 rows in set (0.00 sec)

```
mysql> select * from orders;
```

order_id	customer_id	order_date	order_amount
1	1	2025-01-01	150.00
2	1	2025-01-15	200.00
3	2	2025-01-10	300.00
4	4	2025-01-12	250.00
5	5	2025-01-20	100.00

5 rows in set (0.00 sec)

INNER JOIN Query for Customers in a Specific Region

```
mysql> SELECT
->     c.customer_id,
->     c.customer_name,
->     c.region,
->     o.order_id,
->     o.order_date,
->     o.order_amount
-> FROM customers c
-> INNER JOIN orders o
-> ON c.customer_id = o.customer_id
-> WHERE c.region = 'West';
```

customer_id	customer_name	region	order_id	order_date	order_amount
1	Alice Johnson	West	1	2025-01-01	150.00
1	Alice Johnson	West	2	2025-01-15	200.00
4	Diana Prince	West	4	2025-01-12	250.00

3 rows in set (0.00 sec)

LEFT JOIN Query to Display All Customers Including Those Without Orders

```
mysql> SELECT
->     c.customer_id,
->     c.customer_name,
->     c.region,
->     o.order_id,
->     o.order_date,
->     o.order_amount
-> FROM customers c
-> LEFT JOIN orders o
-> ON c.customer_id = o.customer_id;
```

customer_id	customer_name	region	order_id	order_date	order_amount
1	Alice Johnson	West	1	2025-01-01	150.00
1	Alice Johnson	West	2	2025-01-15	200.00
2	Bob Smith	Midwest	3	2025-01-10	300.00
3	Charlie Brown	East	NULL	NULL	NULL
4	Diana Prince	West	4	2025-01-12	250.00
5	Ethan Hunt	South	5	2025-01-20	100.00
6	Fiona Green	West	NULL	NULL	NULL

7 rows in set (0.00 sec)