

## Assignment – 5

**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.**

In this query:

- We use a LEFT JOIN to ensure that all customers are included, regardless of whether they have placed orders or not.
- We specify the condition for the join using customers.customer\_id = orders.customer\_id, ensuring that the data from both tables is properly aligned based on the customer ID.
- The WHERE clause filters the results to only include customers from the specified region. You would replace 'specified\_region' with the actual region you're interested in.

```
SELECT *  
FROM customers  
LEFT JOIN orders ON customers.customer_id = orders.customer_id  
WHERE customers.region = 'specified_region';
```

```
desc customers;
```

```
insert into customers values (1,'sai','saicharan@gmail.com','hyderbad');  
insert into customers values (2,'sairi','sai@gmail.com','unitedstates');  
insert into customers values (3,'charan','charan@gmail.com','bangaloree');
```

```
select * from customers;
```

```
select name,email from  
customers  
where city = 'unitedstates';
```

```
select name,email from  
customers  
where city = 'hyderabad';
```

```
select * from customers;
```

```
Create table orders  
(  
orderid int primary key, customerid  
int,  
orderdate int  
);  
desc orders;
```

The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the following text:

```
from customers  
where city = 'hyderabad';  
select * from customers;  
  
Create table orders  
(  
orderid int primary key,  
customerid int,  
orderdate int  
);  
desc orders;
```

Below the SQL Commands window, the 'Describe' tab is selected, showing the structure of the 'ORDERS' table:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORDERS	ORDERID	Number	-	-	0	1	-	-	-
	CUSTOMERID	Number	-	-	0	-	✓	-	-
	ORDERDATE	Number	-	-	0	-	✓	-	-

1-3

```
insert into orders values (101,1,20240528);
```

insert into orders values (102,2,20240529);

insert into orders values (103,3,20233008);

select \* from orders;

select \* from customers

INNER JOIN orders ON customers.id = orders.customerid;

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
customerid int,  
orderdate int  
);  
  
desc orders;  
insert into orders values (101,1,20240528);  
insert into orders values (102,2,20240529);  
insert into orders values (103,3,20233008);  
  
select * from orders;  
  
select * from customers  
INNER JOIN orders ON customers.id = orders.customerid;
```

Results Explain Describe Saved SQL History

ID	NAME	EMAIL	CITY	ORDERID	CUSTOMERID	ORDERDATE
1	sravya	sravya@gmail.com	hyderabad	101	1	20240528
2	aki	aki@gmail.com	unitedstates	102	2	20240529
3	anu	anu@gmail.com	bangalore	103	3	20233008

3 rows returned in 0.00 seconds [CSV Export](#)

SELECT c., o.

FROM customers c

INNER JOIN orders o ON c.id = o.customerid  
WHERE c.city = 'unitedstates';

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
desc orders;  
insert into orders values (101,1,20240528);  
insert into orders values (102,2,20240529);  
insert into orders values (103,3,20233008);  
  
select * from orders;  
  
select * from customers  
INNER JOIN orders ON customers.id = orders.customerid;  
  
SELECT c.*, o.*  
FROM customers c  
INNER JOIN orders o ON c.id = o.customerid  
WHERE c.city = 'unitedstates';
```

Results Explain Describe Saved SQL History

ID	NAME	EMAIL	CITY	ORDERID	CUSTOMERID	ORDERDATE
2	aki	aki@gmail.com	unitedstates	102	2	20240529

1 rows returned in 0.00 seconds [CSV Export](#)

SELECT c., o.  
FROM customers c  
LEFT JOIN orders o ON c.id = o.customerid;

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
select * from orders;

select * from customers
INNER JOIN orders ON customers.id = orders.customerid;
```

```
SELECT c.*, o.*
FROM customers c
INNER JOIN orders o ON c.id = o.customerid
WHERE c.city = 'unitedstates';
```

```
SELECT c.*, o.*
FROM customers c
LEFT JOIN orders o ON c.id = o.customerid;
```

Results Explain Describe Saved SQL History

ID	NAME	EMAIL	CITY	ORDERID	CUSTOMERID	ORDERDATE
1	sravya	sravya@gmail.com	hyderabad	101	1	20240528
2	aki	aki@gmail.com	unitedstates	102	2	20240529
3	anu	anu@gmail.com	bangalore	103	3	20233008

3 rows returned in 0.00 seconds

[CSV Export](#)