**Assignment No 10[1]**

**Question:**

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.

**Solution:**

CREATE TABLE customers (

customer\_id INT PRIMARY KEY,

customer\_name VARCHAR2(100),

region VARCHAR2(50)

);

insert into customers (customer\_id, customer\_name, region) values

(1, 'John Doe', 'North America'),

insert into customers (customer\_id, customer\_name, region) values

(2, 'Jane Smith', 'Europe'),

insert into customers (customer\_id, customer\_name, region) values

(3, 'Bob Johnson', 'North America'),

insert into customers (customer\_id, customer\_name, region) values

(4, 'Alice Brown', 'Asia'),

insert into customers (customer\_id, customer\_name, region) values

(5, 'Charlie Wilson', 'North America'),

insert into customers (customer\_id, customer\_name, region) values

(6, 'Diana Clark', 'Europe');

Create orders table

CREATE TABLE orders (

order\_id INT PRIMARY KEY,

customer\_id INT,

order\_date DATE,

order\_amount DECIMAL(10, 2),

FOREIGN KEY (customer\_id) REFERENCES customers(customer\_id)

);

Insert into orders (order\_id, customer\_id, order\_date, order\_amount) values

(101, 1, '2023-01-15', 150.00),

Insert into orders (order\_id, customer\_id, order\_date, order\_amount) values

(102, 2, '2023-02-20', 200.50),

Insert into orders (order\_id, customer\_id, order\_date, order\_amount) values

(103, 1, '2023-03-10', 75.25),

Insert into orders (order\_id, customer\_id, order\_date, order\_amount) values

(104, 3, '2023-04-05', 300.00),

Insert into orders (order\_id, customer\_id, order\_date, order\_amount) values

(105, 2, '2023-05-12', 180.75);

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 = 'North America'

ORDER BY

c.customer\_id, o.order\_date;

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

ORDER BY

c.customer\_id, o.order\_date;