Assignment 1:

Write a SELECT query to retrieve all columns from a 'customers' table, and modify it to return only the customer name and email address for customers in a specific city.

Program:

- SQL SELECT query to retrieve all columns from a customers table:

SELECT * FROM customers;

- Now, to modify it to return only the customer name and email address for customers in a specific city, let's assume the columns are named customer_name and email, and you're looking for customers in the city 'Hyderabad'. The modified query would be**:**

SELECT customer_name, email

FROM customers

WHERE city = 'Hyderabad';

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 order.

Program:

- --Using INNER JOIN to get customers with orders in a specified region

SELECT customers.customer_name, customers.email, orders.order_id

FROM customers

INNER JOIN orders ON customers.customer_id = orders.customer_id

WHERE customers.region = 'SpecifiedRegion';

- --Using LEFT JOIN to get all customers including those without orders

SELECT customers.customer_name, customers.email, orders.order_id

FROM customers

LEFT JOIN orders ON customers.customer_id = orders.customer_id;

Assignment 3:

Utilize a subquery to find customers who have placed orders above the average order value, and write a UNION query to combine two SELECT statements with the same number of columns.

Program:

```
SELECT customer_name, email
FROM customers
WHERE customer_id IN (
  SELECT customer_id
  FROM orders
  WHERE order_value > (SELECT AVG(order_value) FROM orders)
);
```