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.

Ans:

```
create database Information;
show databases;
use Information;
CREATE TABLE customers (
    customer_id INT PRIMARY KEY,
    customer_name VARCHAR(100)
);

INSERT INTO customers (customer_id, customer_name)
VALUES
    (1, 'John Doe'),
    (2, 'Jane Smith'),
    (3, 'Alice Johnson');

CREATE TABLE orders (
    order_id INT PRIMARY KEY,
    total_amount DECIMAL(10, 2),
    customer_id INT,
    FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
);

CREATE TABLE orders (
    order_id INT PRIMARY KEY,
    total_amount DECIMAL(10, 2),
    customer_id INT,
    FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
);

INSERT INTO orders (order_id, total_amount, customer_id)
VALUES
    (101, 150.00, 1),
    (102, 200.00, 2),
    (103, 100.00, 1),
    (104, 180.00, 3),
    (105, 220.00, 2);
SELECT
customer_id,
customer_name
FROM
customers
WHERE
customer_id IN (
SELECT
```

```
customer_id
FROM
orders
GROUP BY
customer_id
HAVING
AVG(total_amount) > (
SELECT
AVG(total_amount)
FROM
orders
            )
    );
```