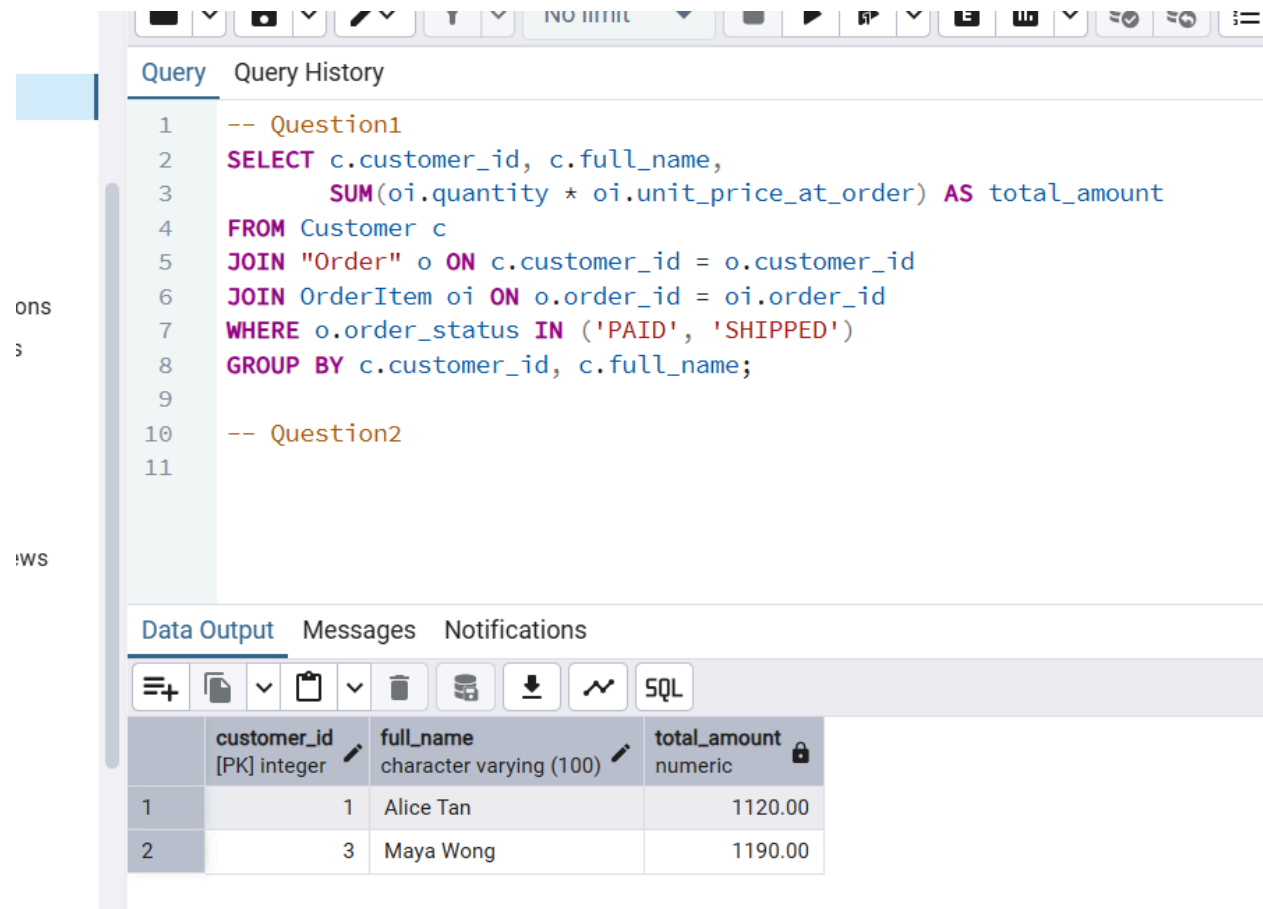


Name: Min Thant Hein  
ID: PIUS20230001

### Question 1

List each customer's total spending for orders with status 'PAID' or 'SHIPPED'.  
Show the following columns:  
customer\_id, full\_name, total\_amount (sum of quantity × unit\_price\_at\_order).



The screenshot shows a SQL IDE interface. The top toolbar contains various icons for file operations, execution, and settings. Below the toolbar, there are tabs for 'Query' and 'Query History'. The 'Query' tab is active, displaying a SQL query. The query is as follows:

```
1  -- Question1
2  SELECT c.customer_id, c.full_name,
3         SUM(oi.quantity * oi.unit_price_at_order) AS total_amount
4  FROM Customer c
5  JOIN "Order" o ON c.customer_id = o.customer_id
6  JOIN OrderItem oi ON o.order_id = oi.order_id
7  WHERE o.order_status IN ('PAID', 'SHIPPED')
8  GROUP BY c.customer_id, c.full_name;
9
10 -- Question2
11
```

Below the query editor, there are tabs for 'Data Output', 'Messages', and 'Notifications'. The 'Data Output' tab is active, showing a table with the results of the query. The table has four columns: 'customer\_id' (integer, primary key), 'full\_name' (character varying (100)), 'total\_amount' (numeric), and a lock icon. The results are as follows:

	customer_id [PK] integer	full_name character varying (100)	total_amount numeric
1	1	Alice Tan	1120.00
2	3	Maya Wong	1190.00

#

## Question 2

Find all orders that contain more than one distinct product.  
Show columns: order\_id, distinct\_products.

```
7 WHERE o.order_status IN ('PAID', 'SHIPPED')
8 GROUP BY c.customer_id, c.full_name;
9
10 -- Question2
11 SELECT o.order_id, COUNT(DISTINCT oi.product_id) AS distinct_products
12 FROM "Order" o
13 JOIN OrderItem oi ON o.order_id = oi.order_id
14 GROUP BY o.order_id
15 HAVING COUNT(DISTINCT oi.product_id) > 1;
```

Data Output Messages Notifications

Showing rows: 1 to 2

	order_id [PK] integer	distinct_products bigint
1	1001	2
2	1003	2

#

## Question 3

List all products that are currently ACTIVE and have stock\_qty greater than 10.

```
16
17 -- Question3
18 SELECT product_id, name, stock_qty
19 FROM Product
20 WHERE status = 'ACTIVE' AND stock_qty > 10;
```

Data Output Messages Notifications

	product_id [PK] integer	name character varying (200)	stock_qty integer
1	101	Python for Beginners	25
2	102	Database Design Essentials	15

#

## Question 4

Find the total number of orders placed by each customer.

```
21
22 -- Question4
23 SELECT c.customer_id, c.full_name, COUNT(o.order_id) AS total_orders
24 FROM Customer c
25 LEFT JOIN "Order" o ON c.customer_id = o.customer_id
26 GROUP BY c.customer_id, c.full_name;
```

Data Output Messages Notifications

Showing results

	customer_id [PK] integer	full_name character varying (100)	total_orders bigint
1	3	Maya Wong	1
2	2	David Lee	1
3	1	Alice Tan	1

#

