

# SQL Queries - Task 3

## 1. SELECT with WHERE and ORDER BY

```
SELECT * FROM orders

WHERE total_amount > 100

ORDER BY total_amount DESC;
```

## 2. GROUP BY with SUM() function

```
SELECT customer_id, SUM(total_amount) AS total_spent

FROM orders

GROUP BY customer_id

ORDER BY total_spent DESC;
```

## 3. INNER JOIN Example

```
SELECT customers.name, orders.order_id, orders.total_amount

FROM customers

INNER JOIN orders ON customers.customer_id = orders.customer_id;
```

## 4. LEFT JOIN Example

```
SELECT customers.name, orders.order_id

FROM customers

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

## 5. Subquery Example

```
SELECT product_name, price

FROM products

WHERE price > (SELECT AVG(price) FROM products);
```

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### 6. Create a View

```
CREATE VIEW Top_Customers AS  
  
SELECT customer_id, SUM(total_amount) AS total_spent  
  
FROM orders  
  
GROUP BY customer_id  
  
HAVING total_spent > 1000;
```

### 7. Create an Index

```
CREATE INDEX idx_customer_id ON orders(customer_id);
```