```
SQL Practice Snippets for Portfolio - Real-World Analysis
1. Total Revenue by Region and Category
SELECT
 c.region,
 p.category,
  SUM(o.quantity * o.unit_price) AS total_revenue
FROM orders o
INNER JOIN customers c ON c.customer_id = o.customer_id
INNER JOIN products p ON p.product_id = o.product_id
GROUP BY c.region, p.category
ORDER BY total revenue DESC;
2. Average Order Value by Region
SELECT
 c.region,
 AVG(o.quantity * o.unit_price) AS avg_order_value
FROM orders o
INNER JOIN customers c ON c.customer_id = o.customer_id
GROUP BY c.region
ORDER BY avg_order_value DESC;
___
3. Top 3 Categories by Revenue in North Region
SELECT
 p.category,
 SUM(o.quantity * o.unit_price) AS total_revenue
FROM orders o
INNER JOIN customers c ON c.customer_id = o.customer_id
INNER JOIN products p ON p.product_id = o.product_id
WHERE c.region = 'North'
GROUP BY p.category
ORDER BY total_revenue DESC
LIMIT 3;
```

4. Total Revenue by Category and Region (with ${\tt HAVING})$

```
c.region,
  p.category,
  SUM(o.quantity * o.unit_price) AS total_revenue
FROM orders o
INNER JOIN customers c ON c.customer_id = o.customer_id
INNER JOIN products p ON p.product_id = o.product_id
GROUP BY c.region, p.category
HAVING total_revenue > 400;
```