```
1. Customers from East or West (age 30-39)
SELECT customer_name
FROM customers
WHERE region IN ('West', 'East')
AND age_group = '30-39';
2. North Region Orders with Quantity > 2
SELECT c.customer_name
FROM orders o
INNER JOIN customers c ON o.customer_id = c.customer_id
WHERE c.region = 'North' AND o.quantity > 2;
3. Total Revenue by Product Category
SELECT p.category, SUM(o.quantity * o.unit_price) AS total_revenue
FROM orders o
INNER JOIN products p ON o.product_id = p.product_id
GROUP BY p.category;
___
4. Regions with More Than 2 Orders
SELECT c.region, COUNT(*) AS num_orders
FROM orders o
INNER JOIN customers c ON o.customer_id = c.customer_id
GROUP BY c.region
HAVING COUNT(*) > 2;
5. Order Value Buckets (Small/Medium/Large)
SELECT
  CASE
   WHEN quantity * unit_price < 300 THEN 'Small'
   WHEN quantity * unit_price BETWEEN 300 AND 700 THEN 'Medium'
   ELSE 'Large'
  END AS value_bucket,
  COUNT(*) AS num_orders
```

SQL Practice Problems - CASE WHEN & Aggregation (Extended Set)

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FROM orders
GROUP BY value_bucket;
6. Product Price Tier Classification
SELECT
 product_name, category,
 CASE
   WHEN price < 150 THEN 'Budget'
   WHEN price BETWEEN 150 AND 300 THEN 'Standard'
   ELSE 'Premium'
 END AS price_tier
FROM products;
7. Order Value Category + Region Filter (South only)
SELECT
 c.customer_name,
 c.region,
 CASE
   WHEN o.quantity * o.unit_price < 300 THEN 'Low'
   WHEN o.quantity * o.unit_price BETWEEN 300 AND 700 THEN 'Mid'
   ELSE 'High'
 END AS value_label
FROM orders o
INNER JOIN customers c ON o.customer_id = c.customer_id
WHERE c.region = 'South'
ORDER BY o.quantity * o.unit_price DESC;
8. CASE WHEN + Aggregation + JOIN
SELECT
  CASE
   WHEN p.price < 200 THEN 'Affordable'
   WHEN p.price BETWEEN 200 AND 500 THEN 'Standard'
   ELSE 'Premium'
 END AS price_tier,
 COUNT(*) AS num_orders
FROM orders o
INNER JOIN products p ON o.product_id = p.product_id
GROUP BY price_tier;
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9. Total Revenue by Region with Filter
SELECT c.region, SUM(o.quantity * o.unit_price) AS total_revenue
FROM orders o
INNER JOIN customers c ON o.customer_id = c.customer_id
GROUP BY c.region
HAVING SUM(o.quantity * o.unit_price) > 600;
___
10. Spending Category by Customer (Low/Mid/High)
SELECT
 c.customer_name,
 c.region,
  CASE
   WHEN o.quantity * o.unit_price < 300 THEN 'Low'
   WHEN o.quantity * o.unit_price BETWEEN 300 AND 700 THEN 'Mid'
   ELSE 'High'
  END AS value_category
FROM orders o
INNER JOIN customers c ON o.customer_id = c.customer_id;
11. Product Tier Using Product Price Alone
SELECT
 product_name, category, price,
  CASE
   WHEN price < 150 THEN 'Low Priced'
   WHEN price BETWEEN 150 AND 300 THEN 'Mid Priced'
   ELSE 'High Priced'
  END AS price_label
FROM products;
12. Order Count Per Region and Value Category
SELECT
 c.region,
  CASE
   WHEN o.quantity * o.unit_price < 300 THEN 'Low'
   WHEN o.quantity * o.unit_price BETWEEN 300 AND 700 THEN 'Mid'
   ELSE 'High'
  END AS value_category,
```

```
COUNT(*) AS num_orders
FROM orders o
INNER JOIN customers c ON o.customer_id = c.customer_id
GROUP BY c.region, value_category;
13. Spending Bucket Per Customer Using SUM + CASE
SELECT
  region,
  spend_category,
  COUNT(*) AS num_customers
FROM (
  SELECT
    c.customer_id,
    c.region,
    CASE
      WHEN SUM(o.quantity * o.unit_price) < 1000 THEN 'Low Spenders'
      WHEN SUM(o.quantity * o.unit_price) BETWEEN 1000 AND 3000 THEN 'Moderate Spenders'
      ELSE 'High Spenders'
    END AS spend_category
  FROM orders o
  INNER JOIN customers c ON o.customer_id = c.customer_id
  GROUP BY c.customer_id, c.region
) AS customer_spending
GROUP BY region, spend_category
HAVING COUNT(*) > 2;
```