MySQL Ecommerce Data Analysis - Task Output

1. SELECT with WHERE & ORDER BY

SQL Query:

```
SELECT first_name, last_name, country, created_at
FROM customers
WHERE country = 'USA'
ORDER BY created_at DESC;
```

Sample Output:

first_name	last_name	country	created_at
John	Doe	USA	2023-08-01
Alice	Smith	USA	2023-07-25

2. GROUP BY with Aggregate Function

SQL Query:

```
SELECT country, COUNT(customer_id) AS total_customers
FROM customers
GROUP BY country
ORDER BY total_customers DESC;
```

Sample Output:

country	total_customers
USA	120
UK	85
India	70

3. INNER JOIN

SQL Query:

```
SELECT o.order_id, c.first_name, c.last_name, o.total_amount
FROM orders o
INNER JOIN customers c ON o.customer_id = c.customer_id
ORDER BY o.total_amount DESC
LIMIT 5;
```

Sample Output:

order_id	first_name	last_name	total_amount
501	John	Doe	980.5
478	Emma	Williams	870.0

4. LEFT JOIN

SQL Query:

```
SELECT p.name, od.quantity, od.price
FROM products p
```

```
LEFT JOIN order_details od ON p.product_id = od.product_id
ORDER BY od.quantity DESC;
```

Sample Output:

name	quantity	price
Laptop	25	1200
Headphones	20	80

5. Subquery Example

SQL Query:

```
SELECT first_name, last_name
FROM customers
WHERE customer_id IN (
SELECT customer_id FROM orders WHERE total_amount > 900
);
```

Sample Output:

first_name	last_name
John	Doe
Emma	Williams

6. View Creation

SQL Query:

```
CREATE VIEW high_value_orders AS
SELECT o.order_id, c.first_name, c.last_name, o.total_amount
FROM orders o
JOIN customers c ON o.customer_id = c.customer_id
WHERE o.total_amount > 900;
```

Sample Output:

View Created: high_value_orders