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CREATE TABLE online_sales (
    order_id INT PRIMARY KEY,
    order_date DATE,
    amount DECIMAL(10, 2),
    product_id INT );
INSERT INTO online_sales (order_id, order_date, amount, product_id) VALUES
(1, '2024-01-15', 100.00, 101),
(2, '2024-01-20', 150.00, 102),
(3, '2024-02-10', 200.00, 101),
(4, '2024-02-18', 120.00, 103),
(5, '2024-03-05', 300.00, 104),
(6, '2024-03-15', 250.00, 102),
(7, '2024-03-25', 180.00, 105),
(8, '2024-04-01', 400.00, 101),
(9, '2024-04-10', 90.00, 102),
(10, '2024-04-20', 110.00, 103);
SELECT
    EXTRACT(YEAR FROM order_date) AS order_year,
    EXTRACT(MONTH FROM order_date) AS order_month,
    SUM(amount) AS total_revenue,
    COUNT(DISTINCT order_id) AS total_orders
FROM
    online_sales
GROUP BY
    order_year, order_month
ORDER BY
    order_year, order_month;
SELECT
    EXTRACT(YEAR FROM order_date) AS order_year,
    EXTRACT(MONTH FROM order_date) AS order_month,
    SUM(amount) AS total_revenue
FROM
    online_sales
GROUP BY
    order_year, order_month
ORDER BY
    total_revenue DESC
LIMIT 3;
SELECT
    EXTRACT(YEAR FROM order_date) AS order_year,
    EXTRACT(MONTH FROM order_date) AS order_month,
    SUM(amount) / COUNT(DISTINCT order_id) AS avg_order_value
FROM
    online_sales
GROUP BY
    order_year, order_month
ORDER BY
    order_year, order_month;

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SELECT
    product_id,
    SUM(amount) AS total_revenue,
    COUNT(*) AS total_orders
FROM
    online_sales
GROUP BY
    product_id
ORDER BY
    total_revenue DESC;

SELECT
    order_date,
    SUM(amount) AS daily_revenue,
    COUNT(*) AS daily_orders
FROM
    online_sales
WHERE
    EXTRACT(YEAR FROM order_date) = 2024
    AND EXTRACT(MONTH FROM order_date) = 3
GROUP BY
    order_date
ORDER BY
    order_date;
```