

Apple

As a Data Analyst on the Supply Chain Procurement Team, you are tasked with assessing supplier performance to ensure reliable delivery of critical components....

Question 1: We need to know who our most active suppliers are. Identify the top 5 suppliers based on the total volume of components delivered in October 2024.

```
SELECT
    s.supplier_name,
    SUM(sd.component_count) AS total_component
FROM suppliers s
JOIN supplier_deliveries sd ON s.supplier_id = sd.supplier_id
WHERE sd.delivery_date BETWEEN DATE '2024-10-01' AND DATE '2024-10-31'
GROUP BY s.supplier_name
ORDER BY total_component DESC
LIMIT 5;
```



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Question 2: For each region, find the supplier ID that delivered the highest number of components in November 2024. This will help us understand which supplier is handling the most volume per market.

```
WITH filtered_data AS (  
    SELECT  
        supplier_id,  
        manufacturing_region,  
        SUM(component_count) AS total_components  
    FROM supplier_deliveries  
    WHERE delivery_date BETWEEN DATE '2024-11-01' AND DATE '2024-11-30'  
    GROUP BY manufacturing_region, supplier_id  
)  
ranked_data AS (  
    SELECT *,  
        RANK() OVER (PARTITION BY manufacturing_region ORDER  
BY total_components DESC) AS rank  
    FROM filtered_data  
)  
SELECT  
    supplier_id,  
    manufacturing_region,  
    total_components  
FROM ranked_data  
WHERE rank = 1;
```



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Question 3: We need to identify potential gaps in our supply chain for Asia. List all suppliers by name who have not delivered any components to the 'Asia' manufacturing region in December 2024.

```
WITH asia AS (  
  SELECT supplier_id  
  FROM supplier_deliveries  
  WHERE manufacturing_region = 'Asia'  
        AND delivery_date BETWEEN DATE '2024-12-01' AND DATE '2024-12-31'  
)  
SELECT supplier_name  
FROM suppliers  
WHERE supplier_id NOT IN (SELECT supplier_id FROM asia);
```

