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.

```sql
with total_volume_component AS
(
  select supplier_id,
  sum(component_count) as vol_comp
  from supplier_deliveries
  where delivery_date BETWEEN '2024-10-01' and '2024-10-31'
  group by supplier_id
)
select t.supplier_id,
s.supplier_name,
  t.vol_comp
from suppliers as s
inner join total_volume_component as t
  on s.supplier_id = t.supplier_id
order by t.vol_comp 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.

```sql
with total_components AS
  (
  select supplier_id,
  manufacturing_region,
   sum(component_count) as total_component
   from supplier_deliveries
   where delivery_date BETWEEN '2024-11-01' and '2024-11-30'
   group by manufacturing_region,supplier_id
),
ranked_component as
  (
select supplier_id,
  manufacturing_region,
  total_component,
rank() over (partition by  manufacturing_region order by total
_component desc) as rn
from total_components
  )
select * from ranked_component
where rn = 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.

```sql
with suppliers_asia AS
(
  select  supplier_id
  from supplier_deliveries
  where delivery_date BETWEEN '2024-12-01' and '2024-12-31'
  and manufacturing_region ='Asia'
)
select supplier_name
from suppliers
where supplier_id not in
(select supplier_id from suppliers_asia)
```