Uber

You are a Product Analyst investigating how delivery partners manage multiple order pickups....

Question 1: For all delivery routes between October 1st and December 31st, 2024, what percentage of routes had multiple (ie. 2 or more) order pickups? This metric will quantify how often order bundling occurs to help evaluate routing efficiency.

```sql
SELECT ((SUM(CASE WHEN pickup_count >= 2 THEN 1 ELSE 0 END) *
100) / COUNT(*)) AS order_pickup_percent
FROM fct_delivery_routes
WHERE route_date BETWEEN '2024-10-01' AND '2024-12-31'
```

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Question 2: For delivery routes with multiple pickups between October 1st and December 31st, 2024, how does the average delivery time differ between routes with exactly 2 orders and routes with 3 or more orders? Use a CASE statement to segment the routes accordingly. This analysis will clarify the impact of different levels of order clustering on delivery performance.

```sql
SELECT
    CASE
        WHEN pickup_count = 2 THEN 'Two Pickups'
        WHEN pickup_count >= 3 THEN 'Three or More Pickups'
    END AS pickup_category,
    AVG(delivery_time) AS avg_delivery_time
FROM
    fct_delivery_routes
WHERE
    route_date BETWEEN '2024-10-01' AND '2024-12-31'
  AND pickup_count >= 2
GROUP BY
    CASE
        WHEN pickup_count = 2 THEN 'Two Pickups'
        WHEN pickup_count >= 3 THEN 'Three or More Pickups'
    END;
```

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Question 3: What is the average earnings per pickup across all routes?

 Note: Some rows have missing values in the earnings column. Before calculating the final value, replace any missing earnings with the average earnings value.

```sql
SELECT
    ROUND(
        AVG(
            COALESCE(earnings, (SELECT AVG(earnings) FROM fct_
delivery_routes))
            / pickup_count
        ), 2
    ) AS avg_earnings_per_pickup
FROM
    fct_delivery_routes;
```