

# Airbnb

As a Business Analyst on the Airbnb for Work team, your task is to analyze corporate travel expense patterns to identify potential cost-saving opportunities....

Question 1: What is the average booking cost for corporate travelers? For this question, let's look only at trips which were booked in January 2024

```
SELECT AVG(booking_cost) AS avg_booking_cost
FROM fct_corporate_bookings
WHERE booking_date BETWEEN DATE '2024-01-01' AND DATE '2024-01-31';
```



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Question 2: Identify the top 5 companies with the highest average booking cost per employee for trips taken during the first quarter of 2024. Note that if an employee takes multiple trips, each booking will show up as a separate row in fct\_corporate\_bookings.

```
WITH person AS (  
    SELECT  
        company_id,  
        employee_id,  
        AVG(booking_cost) AS total_cost  
    FROM fct_corporate_bookings  
    WHERE travel_date BETWEEN DATE '2024-01-01' AND DATE '2024-03-31'  
    GROUP BY company_id, employee_id  
,  
top5 AS (  
    SELECT  
        company_id,  
        AVG(total_cost) AS avg_cost  
    FROM person  
    GROUP BY company_id  
    ORDER BY avg_cost DESC  
    LIMIT 5  
)  
SELECT  
    d.company_name,  
    t.avg_cost  
FROM top5 t  
JOIN dim_companies d ON d.company_id = t.company_id;
```





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Question 3: For bookings made in February 2024, what percentage of bookings were made more than 30 days in advance? Use this to recommend strategies for reducing booking costs.

```
WITH total AS (  
    SELECT *,  
           travel_date - booking_date AS days_before  
    FROM fct_corporate_bookings  
    WHERE booking_date BETWEEN DATE '2024-02-01' AND DATE '2024-  
02-29'  
)  
SELECT  
    ROUND(SUM(CASE WHEN days_before > 30 THEN 1 ELSE 0 END) * 10  
0.0 / COUNT(*), 2)  
    AS percentage_before_30_days  
FROM total;
```

