# Airbnb

As a Product Analyst on the Airbnb Stays team, you are investigating how listing amenities and pricing strategies impact hosts' supplemental income....

## Question 1: What is the overall average nightly price for listings with either a 'pool' or 'ocean view' in July 2024? Consider only listings that have been booked at least once during this period.

```sql
SELECT
  AVG(nightly_price) AS avg_nightly_price
FROM fct_bookings fb
JOIN dim_listings dl ON fb.listing_id = dl.listing_id
WHERE fb.booking_date BETWEEN DATE '2024-07-01' AND DATE '2024
-07-31'
  AND (
    dl.amenities ILIKE '%pool%'
    OR dl.amenities ILIKE '%ocean view%'
);
```

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## Question 2: For listings with no cleaning fee (ie. NULL values in the 'cleaning_fee' column), what is the average difference in nightly price compared to listings with a cleaning fee in July 2024?

```sql
WITH nofee AS (
  SELECT AVG(nightly_price) AS avg_price_no_fee
  FROM fct_bookings
  WHERE cleaning_fee IS NULL
    AND booking_date BETWEEN DATE '2024-07-01' AND DATE '2024-07-31'
),
withfee AS (
  SELECT AVG(nightly_price) AS avg_price_with_fee
  FROM fct_bookings
  WHERE cleaning_fee IS NOT NULL
    AND booking_date BETWEEN DATE '2024-07-01' AND DATE '2024-07-31'
)
SELECT
  withfee.avg_price_with_fee,
  nofee.avg_price_no_fee,
  withfee.avg_price_with_fee - nofee.avg_price_no_fee AS price_difference
FROM withfee, nofee;
```

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Question 3: Based on the top 50% of listings by earnings in July 2024, what percentage of these listings have ‘ocean view’ as an amenity? For this analysis, look at bookings that were made in July 2024.

```
WITH july AS (
  SELECT
    b.listing_id,
    SUM((b.nightly_price + COALESCE(b.cleaning_fee, 0)) * b.bo
oked_nights) AS total_earnings
  FROM fct_bookings b
  WHERE b.booking_date BETWEEN DATE '2024-07-01' AND DATE '202
4-07-31'
  GROUP BY b.listing_id
),
ranked AS (
  SELECT *, ROW_NUMBER() OVER (ORDER BY total_earnings DESC) A
S rank
  FROM july
),
top50 AS (
  SELECT listing_id
  FROM ranked
  WHERE rank <= (SELECT COUNT(*) / 2 FROM july)
),
ocean AS (
  SELECT listing_id
  FROM dim_listings
  WHERE amenities ILIKE '%ocean view%'
)
SELECT
  ROUND((COUNT(DISTINCT o.listing_id) * 100.0) / COUNT(DISTINC
T t.listing_id), 2) AS percentage_ocean_view
FROM top50 t
LEFT JOIN ocean o ON t.listing_id = o.listing_id;
```