## - Sql -

```
1. CREATE TABLE bookings
   WITH (
     format = 'PARQUET',
     partitioned_by = ARRAY['checkin_date']
     bucketed_by = ARRAY['room_number'], bucket_count = 10
   ) AS
   SELECT
     room_number,
     reservation status,
     checkin_date,
     checkout_date,
     room type
   FROM (
     SELECT
      room_number,
      reservation_status,
      checkin_date,
      checkout_date,
      room_type,
      ROW_NUMBER() OVER (PARTITION BY room_number ORDER BY
   checkout_date DESC) AS row_num
     FROM reservations
    WHERE reservation_status = 'not_reserved'
   WHERE row num = 1;
2. With sales_cte as (
  Select format_datetime (month, 'MM) as month,
  Room_type,
  Sum(booking_amount) as total_bookings,
  Avg(booking_amount) as average_bookings
  From bookings
  Group by room_type)
  Select month,
```

Room\_type,

Total\_bookings,

Average\_bookings,

Rank() over(partition by month order by total\_bookings desc) as rank

From sales\_cte

Order by month, rank