-- 1. Which manufacturer's planes had most no of flights? And how many flights

```
select manufacturer, count(*) as NO_of_Planes
from planes
group by manufacturer
order by NO_of_planes desc
limit 1;

select p.manufacturer, count(*) as NO_Of_Flights
FROM flights f
join planes p
on f.tailnum = p.tailnum
group by p.manufacturer
order by p.manufacturer
limit 1;
```

-- 2.Which manufacturer's planes had most no of flying hours? And how many hours

```
select p.manufacturer, SUM(f.air_time::numeric) as Most_Hours
FROM Planes p
Join Flights f
ON p.tailnum = f.tailnum
group by manufacturer
order by Most_hours desc
limit 1;
```

-- 3.Which plane flew the most number of hours? And how many hours?

```
SELECT tailnum, SUM(CAST(air_time as decimal)) as Most_No_Of_Hours
From flights
group by tailnum
order by Most_no_of_hours desc
limit 1;
```

-- 4.Which destination had most delay in flights?

```
SELECT dest, SUM(arr_delay::numeric) as Delay_Time
FROM Flights
group by dest
order by delay_time desc
limit 1;
```

-- 5.Which manufactures planes had covered most distance? And how much distance?

```
SELECT p.manufacturer, SUM(f.distance) as Most_Distance
From Flights f
JOIN Planes p
ON f.tailnum = p.tailnum
group by p.manufacturer
order by most_distance desc
limit 1;
```

-- 6.Which airport had most flights on weekends
SELECT airports.Airport, Count(*) as Flight_count
FROM flights
JOIN airports ON flights.origin = airports."IATA_CODE"
WHERE EXTRACT(DOW FROM DATE(year || '-' || LPAD(month::text, 2, '0') || '-' ||
LPAD(day::text, 2, '0'))) IN (0, 6)
GROUP BY airports."AIRPORT"
ORDER BY flight_count DESC;