

–1) Which manufacturer's planes had most no of flights? And how many flights?

```
SELECT airlines.AIRLINE, COUNT(DISTINCT flights.FLIGHT_NUMBER) AS num_flights
FROM flights
JOIN airlines
ON flights.AIRLINE_CODE = airlines.IATA_CODE
GROUP BY airlines.IATA_CODE, airlines.AIRLINE
ORDER BY num_flights DESC
LIMIT 1;
```

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

```
SELECT airlines.AIRLINE, SUM(flights.SCHEDULED_FLIGHT_TIME) AS total_flight_time
FROM flights
JOIN airlines
ON flights.AIRLINE_CODE = airlines.IATA_CODE
GROUP BY airlines.IATA_CODE, airlines.AIRLINE
ORDER BY total_flight_time DESC
LIMIT 1;
```

–3) Which plane flew the most number of hours? And how many hours?

```
SELECT flights.AIRCRAFT_CODE, flights.FLIGHT_NUMBER,
SUM(flights.SCHEDULED_FLIGHT_TIME) AS total_flight_time
FROM flights
GROUP BY flights.AIRCRAFT_CODE, flights.FLIGHT_NUMBER
ORDER BY total_flight_time DESC
LIMIT 1;
```

–4) Which destination had most delay in flights?

```
SELECT airlines.AIRLINE, SUM(flights.DISTANCE) AS total_distance
FROM flights
```

```
JOIN airlines
ON flights.AIRLINE_CODE = airlines.IATA_CODE
GROUP BY airlines.IATA_CODE, airlines.AIRLINE
ORDER BY total_distance DESC
LIMIT 1;
```

–5) Which manufactures planes had covered most distance? And how much distance?

```
SELECT airlines.AIRLINE, SUM(flights.DISTANCE) AS total_distance
FROM flights
JOIN airlines
ON flights.AIRLINE_CODE = airlines.IATA_CODE
GROUP BY airlines.IATA_CODE, airlines.AIRLINE
ORDER BY total_distance DESC
LIMIT 1;
```

–6) Which airport had most flights on weekends?

```
WITH weekend_flights AS (
  SELECT
    flights.FLIGHT_NUMBER,
    flights.DEPARTURE_AIRPORT_CODE,
    flights.DEPARTURE_DATE
  FROM flights
  WHERE flights.DEPARTURE_DAY IN ('SAT', 'SUN')
)
SELECT
  airports.AIRPORT,
  COUNT(DISTINCT weekend_flights.FLIGHT_NUMBER) AS num_weekend_flights
FROM weekend_flights
JOIN airports
ON weekend_flights.DEPARTURE_AIRPORT_CODE = airports.IATA_CODE
GROUP BY airports.IATA_CODE, airports.AIRPORT
ORDER BY num_weekend_flights DESC
LIMIT 1;
```