



Revolve Solutions SQL Assessment

Questions-

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

Answer:

```
SELECT SUBSTRING(tailnum, 1, 3) AS manufacturer, COUNT(*) AS num_flights
FROM flights
GROUP BY manufacturer
ORDER BY num_flights DESC
LIMIT 1;
```

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

Answer:

```
SELECT manufacturer, SUM(air_time) AS total_flying_hours
FROM (
  SELECT SUBSTRING(f.tailnum, 1, 3) AS manufacturer, f.air_time
  FROM flights AS f
) AS subquery
GROUP BY manufacturer
ORDER BY total_flying_hours DESC
LIMIT 1;
```

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

Answer:

```
SELECT tailnum, SUM(air_time) AS total_flying_hours
FROM flights
GROUP BY tailnum
ORDER BY total_flying_hours DESC
LIMIT 1;
```

4. Which destination had most delay in flights?

Answer:

```
SELECT dest, SUM(arr_delay) AS total_delay
FROM flights
GROUP BY dest
ORDER BY total_delay DESC
LIMIT 1;
```

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

Answer:

```
SELECT SUBSTRING(tailnum, 1, 3) AS manufacturer, SUM(distance) AS total_distance
FROM flights
GROUP BY manufacturer
ORDER BY total_distance DESC
LIMIT 1;
```

6. Which airport had most flights on weekends?

Answer:

```
SELECT origin, COUNT(*) AS num_flights
FROM flights
WHERE EXTRACT(DOW FROM CONCAT(year, '-', month, '-', day)::date) IN (0, 6)
GROUP BY origin
ORDER BY num_flights DESC
LIMIT 1;
```