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1. Find list of airport codes in Europe/Moscow timezone

   ```
   SELECT
   DISTINCT airport_code
   FROM bookings.airports_data
   WHERE timezone='Europe/Moscow'
   ```

2. Write a query to get the count of seats in various fare condition for every aircraft code?

   ```
   SELECT
   aircraft_code,
   Count (seat_no)
   FROM bookings.seats
   Group by 1
   ```

3. How many aircrafts codes have at least one Business class seats?

   ```
   SELECT
   count(distinct aircraft_code)
   FROM bookings.seats
   WHERE fare_conditions in ('Business')
   ```

4. Find out the name of the airport having maximum number of departure flight

   ```
   SELECT
   ad.airport_name
   FROM bookings.flights f
   LEFT JOIN bookings.airports_data ad
   ON f.departure_airport=ad.airport_code
   GROUP BY 1
   ORDER BY count(f.departure_airport) DESC
   LIMIT 1
   ```

5. How many flights from 'DME' airport don't have actual departure?

```
SELECT
count(distinct flight_id)
FROM bookings.flights
WHERE departure_airport='DME'
AND actual_departure IS NULL
```

6. Identify flight ids having range between 3000 to 6000

```
SELECT
distinct f.flight_id
FROM bookings.aircrafts_data ad
LEFT JOIN bookings.flights f
ON f.aircraft_code=ad.aircraft_code
WHERE ad.range between 3000 and 6000
```

7. Write a query to get the count of flights flying between URS and KUF?

```
SELECT
COUNT (distinct flight_id)
FROM bookings.flights
WHERE arrival_airport IN ('URS','KUF')
AND departure_airport IN ('URS','KUF')
```

8. Write a query to get the count of flights flying from either from NOZ or KRR?

```
SELECT
count (distinct flight_id)
FROM bookings.flights
WHERE departure_airport IN ('NOZ','KRR')
```

9. Write a query to get the count of flights flying from KZN, DME, NBC,NJC,GDX,SGC,VKO,ROV

```
SELECT
count (distinct_flight_id)
FROM bookings.flights
WHERE departure_airport IN ('KZN', 'DME', 'NBC','NJC','GDX','SGC','VKO','ROV')
```

10. Write a query to extract flight details having range between 3000 and 6000 and flying from DME

```
SELECT
Distinct *
FROM bookings.flights f
LEFT JOIN bookings.aircrafts_data ad
ON f.aircraft_code=ad.aircraft_code
WHERE departure_airport='DME' and
ad.range BETWEEN 3000 and 6000
```

11. Find the list of flight ids which are using aircrafts from "Airbus" company and got cancelled or delayed

```
SELECT
f.flight_id
FROM bookings.flights f
LEFT JOIN bookings.aircrafts_data ad
ON f.aircraft_code=ad.aircraft_code
WHERE cast(ad.model as varchar) LIKE '%Airbus%'
AND f.status IN ('Cancelled', 'Delayed')
```

12. Find the list of flight ids which are using aircrafts from "Boeing" company and got cancelled or delayed

```
SELECT
f.flight_id
FROM bookings.flights f
LEFT JOIN bookings.aircrafts_data ad
ON f.aircraft_code=ad.aircraft_code
WHERE cast(ad.model as varchar) LIKE '%Boeing%'
AND f.status IN ('Cancelled', 'Delayed')
```

13. Which airport(name) has most cancelled flights (arriving)?

```
SELECT
ad.airport_name
FROM bookings.flights f
LEFT JOIN bookings.airports_data ad
ON f.arrival_airport=ad.airport_code
WHERE f.status IN ('Cancelled')
GROUP BY ad.airport_name
ORDER BY count(*) desc
LIMIT 1
```

14. Identify flight ids which are using "Airbus aircrafts"

```
SELECT
f.flight_id
FROM bookings.flights f
LEFT JOIN bookings.aircrafts_data ad
ON f.aircraft_code=ad.aircraft_code
WHERE cast(ad.model as varchar) LIKE '%Airbus%'
```

15. Identify date-wise last flight id flying from every airport?

```
with table1 as (SELECT
f.flight_id,
ROW_NUMBER() OVER(Partition by departure_airport Order by cast(scheduled_departure as date)
desc)
FROM bookings.flights f
LEFT JOIN bookings.aircrafts_data ad
ON f.aircraft_code=ad.aircraft_code)
SELECT
flight_id
FROM TABLE1
WHERE ROW_NUMBER=1
```

18. Identify date wise first cancelled flight id flying for every airport?

```
with table1 as (SELECT
f.flight_id,
ROW_NUMBER() OVER(Partition by departure_airport Order by cast(scheduled_departure as date)
asc)
FROM bookings.flights f
LEFT JOIN bookings.aircrafts_data ad
ON f.aircraft_code=ad.aircraft_code
WHERE f.status='Cancelled')
SELECT
flight_id
FROM TABLE1
WHERE ROW_NUMBER=1
```

19.Identify list of Airbus flight ids which got cancelled.

```sql
SELECT distinct f.flight_no,
temp.range
FROM bookings.flights f
JOIN (select aircraft_code,
range from bookings.aircrafts_data
WHERE range = (select max(range)
FROM bookings.aircrafts_data)) temp
ON f.aircraft_code = temp.aircraft_code
```