



SQL

**EXPEDIA TRAVEL DATASET
ANALYSIS**

```
1  create schema travel;
2 • select * from travel.travel;
3
4  -- 1. Retrieve all records where `is_booking` is 1
5 • SELECT * FROM travel.travel WHERE is_booking = 1;
6
7  -- 2. Count the total number of rows in the dataset
8 • SELECT COUNT(*) AS total_rows FROM travel.travel;
9
10 -- 3. List all unique `hotel_continent` values
11 • SELECT DISTINCT hotel_continent FROM travel.travel;
```



```
13  -- 4. Find the earliest `date_time` in the dataset
14 • SELECT MIN(date_time) AS earliest_date FROM travel.travel;
15
16  -- 5. Count the number of records for each `is_mobile` category
17 • SELECT is_mobile, COUNT(*) AS count FROM travel.travel GROUP BY is_mobile;
18
19  -- 6. Calculate the average `orig_destination_distance`
20  -- | for each `hotel_continent`
21 • SELECT hotel_continent, AVG(orig_destination_distance) AS avg_distance
22  FROM travel.travel
23  GROUP BY hotel_continent;
24
```

```
25  -- 7. Find the top 5 most frequently searched
26  --      `srch_destination_id`
27 • SELECT srch_destination_id, COUNT(*) AS search_count
28 FROM travel.travel
29 GROUP BY srch_destination_id
30 ORDER BY search_count DESC
31 LIMIT 5;
32
33 -- 8. Count the number of bookings (`is_booking = 1`)
34 --      for each `hotel_cluster`
35 • SELECT hotel_cluster, COUNT(*) AS booking_count
36 FROM travel.travel
37 WHERE is_booking = 1
38 GROUP BY hotel_cluster;
```

```
40  -- 9. Determine the total number of `srch_adults_cnt`
41  --      and `srch_children_cnt` for all bookings
42 • SELECT
43     SUM(srch_adults_cnt) AS total_adults,
44     SUM(srch_children_cnt) AS total_children
45 FROM travel.travel
46 WHERE is_booking = 1;
47
48 -- 10. Find the most popular `hotel_country` based
49 --      on bookings (`is_booking = 1`)
50 • SELECT hotel_country, COUNT(*) AS booking_count
51 FROM travel.travel
52 WHERE is_booking = 1
53 GROUP BY hotel_country
54 ORDER BY booking_count DESC
55 LIMIT 1;
```



```
57  -- 11. Identify the `user_id` with the highest total
58  --      search count (`cnt`)
59 • SELECT user_id, SUM(cnt) AS total_search_count
60 FROM travel.travel
61 GROUP BY user_id
62 ORDER BY total_search_count DESC
63 LIMIT 1;
64
65 -- 12. Retrieve records where the `srch_ci` date is earlier
66 --      than the `srch_co` date
67 • SELECT *
68 FROM travel.travel
69 WHERE srch_ci < srch_co;
```

```
71  -- 13. Identify `user_location_city` values with the most
72  --      significant number of searches for a specific `hotel_market`
73 • SELECT user_location_city, COUNT(*) AS search_count
74 FROM travel.travel
75 WHERE hotel_market = 1258 -- Replace 1258 with your target market
76 GROUP BY user_location_city
77 ORDER BY search_count DESC
78 LIMIT 1;
79
80 -- 14. Find anomalies: records where `orig_destination_distance` is unusually high
81 • SELECT *
82 FROM travel.travel
83 WHERE orig_destination_distance > (
84     SELECT AVG(orig_destination_distance) + 3 * STDDEV(orig_destination_distance)
85     FROM travel.travel
86 );
```

```
88  -- 15. Compare the average booking rates (`is_booking`)
89  --      for mobile vs. desktop searches
90 • SELECT
91     is_mobile,
92     AVG(is_booking) AS avg_booking_rate
93 FROM travel.travel
94 GROUP BY is_mobile;
```