

SQL CASE STUDY

MAHA KUMBH MELA 2025



Real Time SQL Case Study With REAL DATASET



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TABLES USED:

- Events
- Bathing_Days
- Accommodations
- Facilities
- Cultural_Programs
- Vendors
- Lost_Found



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1. FIND THE TOTAL NUMBER OF ACCOMMODATION SLOTS AVAILABLE FOR VISITORS?

```
SELECT SUM(capacity) AS total_capacity  
FROM Accommodations;
```

Query #1 Execution time: 0.26ms

total_capacity
65000



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2. LIST ALL IMPORTANT BATHING DAYS ALONG WITH THEIR DATES, SORTED IN CHRONOLOGICAL ORDER?

```
SELECT bathing_day_name, bathing_date  
FROM Bathing_Days  
ORDER BY bathing_date ASC;
```

Query #2 Execution time: 0.22ms	
bathing_day_name	bathing_date
Makar Sankranti	2025-01-14
Mauni Amavasya	2025-02-09
Basant Panchami	2025-02-13
Maghi Purnima	2025-02-23
Maha Shivratri	2025-03-06



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3. RETRIEVE THE NAMES OF VENDORS AND THEIR LOCATIONS WHO ARE OFFERING FOOD-RELATED SERVICES?

```
SELECT name, location  
FROM Vendors  
WHERE type LIKE '%Food%' OR type LIKE '%Tea%';
```

Query #3 Execution time: 0.18ms

name	location
Ganga Bhojanalaya	Sector 12
Chaiwala Express	Near Entry Gate



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4. FIND THE NUMBER OF LOST PERSONS STILL UNDER SEARCH?



```
SELECT COUNT(*) AS still_missing_count  
FROM Lost_Found  
WHERE status = 'Searching';
```

Query #4 Execution time: 0.21ms

still_missing_count
1



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5.FIND THE TOTAL NUMBER OF FACILITIES AVAILABLE FOR A GIVEN EVENT?



```
SELECT event_id, SUM(total) AS total_facilities  
FROM Facilities  
GROUP BY event_id;
```

Query #5 Execution time: 0.2ms

event_id	total_facilities
1	180



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