

DPDzero

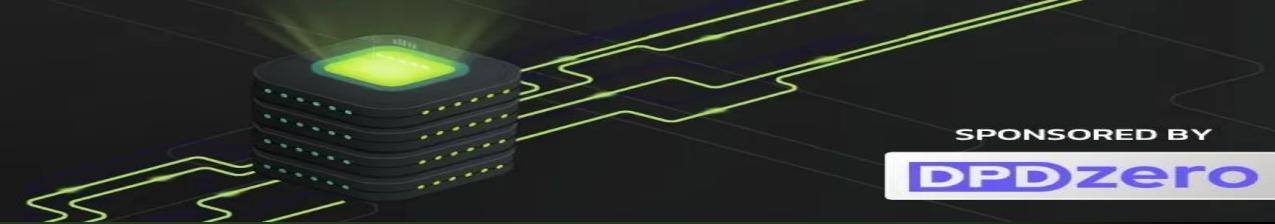
21 DAYS

SQL CHALLENGE**DAY 09****Topic:**

DATE functions, date arithmetic, EXTRACT

Challenge:

Calculate the average length of stay (in days) for each service, showing only services where the average stay is more than 7 days. Also show the count of patients and order by average stay descending.



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Day 9

QUERY:

```
SELECT service,  
ROUND(AVG(datediff(departur  
e_date,arrival_date)),2) as  
avg_stay,  
count(patient_id) as  
patient_count  
FROM patients  
group by service  
having avg_stay>7  
order by avg_stay desc;
```

RESULT:

| | service | avg_stay | patient_count |
|---|-----------|----------|---------------|
| ▶ | surgery | 7.87 | 254 |
| | ICU | 7.61 | 241 |
| | emergency | 7.16 | 263 |

Daily Challenge:

Question: Calculate the average length of stay (in days) for each service, showing only services where the average stay is more than 7 days. Also show the count of patients and order by average stay descending.



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Day 9

RESULT:

QUERY:

```
SELECT  
patient_id,year(arrival_date) as  
Arrival_Year  
FROM patients;
```

| | patient_id | Arrival_Year |
|---|--------------|--------------|
| ▶ | PAT-003ce690 | 2025 |
| | PAT-00883d3c | 2025 |
| | PAT-00b64d32 | 2025 |
| | PAT-029113eb | 2025 |
| | PAT-02ae68da | 2025 |

Result 116 ×

Practice Question:

1. Extract the year from all patient arrival dates.



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Day 9

QUERY:

```
SELECT
patient_id,CONCAT(DATEDIF
F(departure_date,arrival_date
),' days') as duration
FROM patients;
```

RESULT:

| | patient_id | duration |
|------------|--------------|----------|
| ▶ | PAT-003ce690 | 2 days |
| | PAT-00000d2- | 7 days |
| | PAT-00883d3c | 1 days |
| | PAT-00000002 | 1 days |
| | PAT-029113eb | 9 days |
| | PAT-02ae68da | 14 days |
| | PAT-02f2e75d | 5 days |
| | PAT-0307a640 | 1 days |
| | PAT-030f2b7d | 5 days |
| Result 119 | | × |

Practice Question:

2. Calculate the length of stay for each patient (departure_date - arrival_date).



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Day 9

RESULT:

| Result Grid | | | |
|--------------|-----------------|------------|--------------|
| | patient_id | name | arrival_date |
| PAT-06d975bc | Donald Medina | 2025-05-14 | |
| PAT-0812aab1 | Bryan Gomez | 2025-05-31 | |
| PAT-0865f855 | Richard Stevens | 2025-05-13 | |
| PAT-096760c2 | Jeremy Sampson | 2025-05-12 | |
| PAT-0d73fc32 | Nancy Stewart | 2025-05-09 | |
| PAT-0f73df9c | Jennifer Banks | 2025-05-09 | |
| PAT-1112a754 | Ashley Smith | 2025-05-27 | |
| PAT-14171b1d | Gary Wells | 2025-05-21 | |
| PAT-14da658e | Dennis Marshall | 2025-05-20 | |
| PAT-15367ce5 | Monica Miller | 2025-05-18 | |
| PAT-1d5f8550 | Curtis Watson | 2025-05-18 | |
| PAT-1f221580 | Robin Brown | 2025-05-11 | |

QUERY:

```
SELECT patient_id,  
name,arrival_date  
FROM patients  
WHERE  
DATE_FORMAT(arrival_date,  
'%m') = '05';
```

Practice Question:

3. Find all patients who arrived in a specific month.