

11/21/2025

DAY 19

#SQLWithIDC

[21 DAYS SQL CHALLENGE]

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PRACTICE QUESTIONS

1. Rank patients by satisfaction score within each service.

```
SELECT patient_id, name AS patient_name, service, satisfaction,  
DENSE_RANK() OVER(  
    PARTITION BY service ORDER BY satisfaction DESC) AS rnk  
FROM patients;
```

2. Assign row numbers to staff ordered by their name.

```
SELECT staff_name, staff_id, service,  
ROW_NUMBER() OVER(  
    ORDER BY staff_name ASC) AS row_num  
FROM staff;
```

3. Rank service by total patients admitted.D

```
SELECT service,  
SUM(patients_admitted) AS total_patients_admitted,  
DENSE_RANK() OVER(  
    ORDER BY SUM(patients_admitted) DESC AS service_rank  
FROM services_weekly  
GROUP BY service;
```

DAILY CHALLENGE – DAY 19

1. For each service rank the weeks by patient satisfaction score(highest first)
 - Show service, week, patient_satisfaction, patient_admitted
 - And the rank include only the top 3 weeks per service.

```
WITH service_rank AS (  
    SELECT service, week, patients_satisfaction, patients_admitted,  
    DENSE_RANK() OVER(  
        PARTITION BY service ORDER BY patients_satisfaction DESC AS week_rank  
    FROM services_weekly  
    )  
    SELECT service, week, patients_satisfaction, patients_admitted, week_rank  
    FROM service_rank  
    WHERE week_rank <= 3;
```