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# DAY 15

## #SQLWithIDC

[ 21 DAYS SQL CHALLENGE ]

- divyanshi doser  
[ INDIAN DATA CLUB]

## PRACTICE QUESTIONS

1. Join patients, staff and staff\_schedule to show patient service and staff availability.

```
SELECT p.patient_id, p.name AS patient_name, p.service,  
s.staff_id, s.staff_name, s.role, ss.present  
FROM patients AS p  
JOIN staff AS s  
ON p.service = s.service  
JOIN staff_schedule AS ss  
ON ss.staff_id = s.staff_id;
```

2. Combine services\_weekly with staff and staff\_schedule for comprehensive service analysis.

```
SELECT sw.week, sw.month, sw.service, sw.available_beds,  
sw.patients_admitted, sw.patients_refused, sw.patients_request,  
sw.patients_satisfaction, sw.staff_morale,  
sw.event, s.staff_id, s.staff_name, s.role, ss.present  
FROM services_weekly AS sw  
JOIN staff AS s  
ON sw.service = s.service  
JOIN staff_schedule AS ss  
ON s.staff_id = ss.staff_id;
```

3. Create a multi table report showing patient admission with staff information.

```
SELECT p.patient_id, p.name AS patient_name, p.age, p.arrival_date,  
p.departure_date, p.service, p.satisfaction AS patient_satisfaction, ss.week,  
s.staff_id, s.staff_name, s.role AS staff_role, ss.present  
FROM patients AS p  
JOIN staff AS s  
ON p.service = s.service  
JOIN staff_schedule AS ss  
ON s.staff_id = ss.staff_id;
```

## DAILY CHALLENGE – DAY 15

1. Create a comprehensive service analysis report for week 20 showing:
  - service name, total patients admitted that week, total patients refused, average patient satisfaction, count of staff assigned to service, and count of staff present that week.
  - Order by patients admitted descending.

```
SELECT sw.week, sw.service, SUM(sw.patients_admitted) AS total_admitted_patient,  
SUM(sw.patients_refused) AS total_patients_refused,  
ROUND(Avg(sw.patients_satisfaction),2) AS avg_patients_satisfaction,  
COUNT(s.staff_id) AS total_assigned_staff, SUM(CASE  
WHEN ss.present = 1 THEN 1  
ELSE 0 END) AS total_staff_present  
FROM services_weekly AS sw  
JOIN staff AS s  
ON sw.service = s.service  
JOIN staff_schedule AS ss  
ON s.staff_id = ss.staff_id  
WHERE sw.week = 20  
GROUP BY sw.week, sw.service  
ORDER BY total_admitted_patient DESC;
```