



11/17/2025

DAY 16

#SQLWithIDC

[21 DAYS SQL CHALLENGE]



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[INDIAN DATA CLUB]

PRACTICE QUESTIONS

1. Find Patients who are in services with above-average staff count.

```
SELECT p.patient_id, p.name AS patient_name, p.service
FROM patients AS p
WHERE p.service IN (
  SELECT service
  FROM staff
  GROUP BY service
  HAVING COUNT (staff_id) > (
    SELECT AVG (staff_count)
    FROM (
      SELECT service, COUNT(staff_id) AS staff_count
      FROM staff
      GROUP BY service)
    t));
```

2. List staff who work in services that had any week with patient satisfaction below 70

```
SELECT staff_id, staff_name, service
FROM staff
WHERE service IN (
SELECT service FROM services_weekly
WHERE patients_satisfaction < 70 );
```

3. Show patients from services where total admitted patients exceed 1000

```
SELECT p.patient_id, p.name, p.service
FROM patients AS p
WHERE p.service IN (
SELECT service FROM services_weekly
GROUP BY service
HAVING SUM(patients_admitted) > 1000 );
```

DAILY CHALLENGE – DAY 16

Find all patients who were admitted to services that had at least one week where patients were refused AND the average patient satisfaction for that service was below the overall hospital average satisfaction.

- Show patient_id, name, service and their personal satisfaction score.

```
SELECT patient_id, name, service, satisfaction
FROM patients
WHERE service IN (
  SELECT service FROM services_weekly
  GROUP BY service
  HAVING (SUM(patients_refused) > 0
  AND
  AVG(patients_satisfaction) < (
  SELECT AVG(patients_satisfaction)
  FROM services_weekly)
)
);
```