

11/15/2025

# DAY 13

## #SQLWithIDC

[ 21 DAYS SQL CHALLENGE ]

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[ INDIAN DATA CLUB]

## PRACTICE QUESTIONS

1. Join patients and staff based on their common service field  
( Show patient and staff who work in same service ).

```
SELECT p.name AS patient_name, s.staff_name, s.service
FROM patients AS p
INNER JOIN staff AS s
ON p.service = s.service;
```



```
338 -- 1.Join patients and staff based on their common service field( Show patient and staff who work in same service ).
339 •   SELECT p.name AS patient_name, s.staff_name, s.service
340     FROM patients AS p
341     INNER JOIN staff AS s
342     ON p.service = s.service;
343
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Fetch rows:

patient_name	staff_name	service
Larry Dixon	Cameron Parker	ICU
Larry Dixon	Kenneth Scott	ICU
Larry Dixon	Shannon Walker	ICU
Larry Dixon	Anna Henderson	ICU
Larry Dixon	Victor Baker	ICU
Larry Dixon	Kelly Donovan	ICU
Larry Dixon	Christopher Bass	ICU
Larry Dixon	Shirley Suarez	ICU
Larry Dixon	Crystal Johnson	ICU
Larry Dixon	Lisa Barnes	ICU
Larry Dixon	Matthew Mcmillan	ICU
Larry Dixon	Rebecca Valencia	ICU
Larry Dixon	Larry Dixon	ICU
Larry Dixon	Garrett Lin	ICU
Larry Dixon	Paul Jones	ICU
Larry Dixon	Lisa Archer	ICU
Larry Dixon	Evelyn Galvan	ICU
Larry Dixon	Michael Evans	ICU
Larry Dixon	Michelle Hansen	ICU

2. Join services\_weekly with staff to show weekly service data with staff information.

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



343  
344 -- 2. Join services\_weekly with staff to show weekly service data with staff information.  
345  
346 • **SELECT** sw.week, sw.month, sw.service, sw.available\_beds, sw.patients\_request,  
347 sw.patients\_admitted, sw.patients\_refused, sw.patients\_satisfaction,  
348 sw.staff\_morale, sw.event, s.staff\_id, s.staff\_name, s.role  
349 **FROM** services\_weekly **AS** sw  
350 **LEFT JOIN** staff **AS** s  
351 **ON** sw.service = s.service;  
352

**Result Grid** | Filter Rows: Export: Wrap Cell Content: Fetch rows:

week	month	service	available_beds	patients_request	patients_admitted	patients_refused	patients_satisfaction	staff_morale	event	staff_id	staff_name	role
1	1	emergency	32	76	32	44	67	70	none	STF-fd4df1f4	Ethan Adams	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-e51b1db4	Jamie Arnold	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-db5926dd	Margaret Hawkins DDS	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-d8006e7c	Angie Henderson	doctor
1	1	emergency	32	76	32	44	67	70	none	STF-d7ab0c23	Monica Herrera	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-ca932dea	Connie Lawrence	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-bc4c419e	Zachary Hicks	nursing_assistant
1	1	emergency	32	76	32	44	67	70	none	STF-b9e859d8	Stephanie Ross	nursing_assistant
1	1	emergency	32	76	32	44	67	70	none	STF-b4fb711c	Lisa Jackson	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-abec8336	Holly Wood	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-a8e146c6	Justin Baker	nursing_assistant
1	1	emergency	32	76	32	44	67	70	none	STF-99227609	Patty Perez	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-8cabbb71f	Lisa Henley	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-768c9dd6	Brian Ramirez	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-702887af	Gina Moore	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-6f535fb8	Derek Zuniga	nurse
1	1	emergency	32	76	32	44	67	70	none	STF-5ca26577	Allison Hill	doctor
1	1	emergency	32	76	32	44	67	70	none	STF-4ed3b149	Judy Baker	nursing_assistant

3. Create a report showing patient information along with staff assigned to their service.

```

SELECT p.patient_id, p.name AS patient_name, p.age,
p.arrival_date, p.departure_date, p.service, p.satisfaction,
s.staff_id, s.staff_name, s.role
FROM patients AS p
LEFT JOIN staff AS s
ON p.service = s.service;

```

output



-- 3.Create a report showing patient information along with staff assigned to their service.

```

354
355 •  SELECT p.patient_id, p.name AS patient_name, p.age,
356   p.arrival_date, p.departure_date, p.service, p.satisfaction,
357   s.staff_id, s.staff_name, s.role
358   FROM patients AS p
359   LEFT JOIN staff AS s
360   ON p.service = s.service;
361
362

```

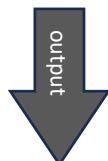
**Result Grid**

patient_id	patient_name	age	arrival_date	departure_date	service	satisfaction	staff_id	staff_name	role
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-fdc1ae8e	Cameron Parker	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-e983db1d	Kenneth Scott	nursing_assistant
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-e573be71	Shannon Walker	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-e328da72	Anna Henderson	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-ddd99f9e	Victor Baker	nursing_assistant
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-dd7b8861	Kelly Donovan	doctor
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-d77b1013	Christopher Bass	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-d7371c06	Shirley Suarez	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-cf9225db	Crystal Johnson	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-cb0c3c50	Lisa Barnes	doctor
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-cacb7290	Matthew McMillan	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-c479af96	Rebecca Valencia	nursing_assistant
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-b00ed3e2	Larry Dixon	nursing_assistant
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-abfd900	Garrett Lin	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-ab59db32	Paul Jones	doctor
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-a94474ff	Lisa Archer	nurse
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-a8c30e00	Evelyn Galvan	nursing_assistant
PAT-003ce690	Larry Dixon	29	2025-01-19	2025-01-21	ICU	60	STF-a1659ed6	Michael Evans	doctor

# DAILY CHALLENGE – DAY 13

1. Create a comprehensive report showing patient\_id, patient\_name, age, service, and the total number of staff members available in their service.
  - Only include patients from services that have more than 5 staff members.
  - Order by member of staff descending, then by patient name.

```
WITH staff_count AS (
    SELECT service, COUNT(*) AS total_staff
    FROM staff
    GROUP BY service
    HAVING COUNT(*) > 5 )
    SELECT p.patient_id, p.name AS patient_name, p.age, p.service, sc.total_staff
    FROM patients AS p
    JOIN staff_count AS sc
    ON p.service = sc.service
    ORDER BY sc.total_staff DESC, p.name ASC;
```



364 -- Create a comprehensive report showing patient\_id, patient\_name, age, service, and the total number of staff members available in their service.  
365 -- Only include patients from services that have more than 5 staff members.  
366 -- Order by member of staff descending, then by patient name.

367 WITH staff\_count AS(  
368 SELECT service, COUNT(\*) AS total\_staff  
369 FROM staff  
370 GROUP BY service  
371 HAVING COUNT(\*) > 5  
372 )  
373 SELECT p.patient\_id, p.name AS patient\_name, p.age, p.service, sc.total\_staff  
374 FROM patients AS p  
375 JOIN staff\_count AS sc  
376 ON p.service = sc.service  
377 ORDER BY sc.total\_staff DESC, p.name ASC;

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Result Grid | Filter Rows: Export: Wrap Cell Content:

patient_id	patient_name	age	service	total_staff
PAT-1cc7c1b5	Adam Vaughan	2	ICU	48
PAT-bfb1b3b6	Alejandro Deleon	14	ICU	48
PAT-d7d122d6	Alexa Buck	73	ICU	48
PAT-f316d988	Alexander Collins	17	ICU	48
PAT-615c986b	Alexandra Dominguez	80	ICU	48
PAT-ddd92df7	Alison Brown	50	ICU	48
PAT-c012faab	Allison Hickman	6	ICU	48
PAT-d4fc50d8	Allison Spencer	84	ICU	48
PAT-4275a12b	Alyssa Day	69	ICU	48
PAT-c171febc	Alyssa Haynes	82	ICU	48
PAT-12523d2c	Amanda Sullivan MD	65	ICU	48
PAT-91fhh614	Amv Kalliev	79	ICU	48