

11/16/2025

DAY 14

#SQLWithIDC

[21 DAYS SQL CHALLENGE]

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PRACTICE QUESTIONS

1. Show all staff members and their schedule information
(including those with no schedule entries)

```
SELECT s.staff_id, s.staff_name, s.role, s.service, ss.week, ss.present
FROM staff AS s
LEFT JOIN staff_schedule AS ss
ON s.staff_id = ss.staff_id;
```



```
-- 1.Show all staff members and their schedule information (including those with no schedule entries)
383 •  SELECT s.staff_id , s.staff_name, s.role, s.service, ss.week, ss.present
384   FROM staff AS s
385   LEFT JOIN staff_schedule AS ss
386   ON s.staff_id = ss.staff_id|
387
```

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

staff_id	staff_name	role	service	week	present
STF-00b6381d	Steve Sanchez	doctor	ICU	1	1
STF-00b6381d	Steve Sanchez	doctor	ICU	2	1
STF-00b6381d	Steve Sanchez	doctor	ICU	3	0
STF-00b6381d	Steve Sanchez	doctor	ICU	4	1
STF-00b6381d	Steve Sanchez	doctor	ICU	5	1
STF-00b6381d	Steve Sanchez	doctor	ICU	6	0
STF-00b6381d	Steve Sanchez	doctor	ICU	7	1
STF-00b6381d	Steve Sanchez	doctor	ICU	8	1
STF-00b6381d	Steve Sanchez	doctor	ICU	9	0
STF-00b6381d	Steve Sanchez	doctor	ICU	10	1
STF-00b6381d	Steve Sanchez	doctor	ICU	11	1
STF-00b6381d	Steve Sanchez	doctor	ICU	12	0
STF-00b6381d	Steve Sanchez	doctor	ICU	13	1

2. List all services from services_weekly and their corresponding staff
(show services even if no staff assigned)

```
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_name, s.role
FROM services_weekly AS sw
LEFT JOIN staff AS s
ON sw.service = s.service;
```



-- 2.List all services from services_weekly and their corresponding staff(show services even if no staff assigned)

```
389
390 • SELECT sw.week, sw.month, sw.service, sw.available_beds,
391 sw.patients_admitted, sw.patients_refused, sw.patients_request,
392 sw.patients_satisfaction, sw.staff_morale, sw.event, s.staff_name, s.role
393 FROM services_weekly AS sw
394 LEFT JOIN staff AS s
395 ON sw.service = s.service|
```

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

week	month	service	available_beds	patients_admitted	patients_refused	patients_request	patients_satisfaction	staff_morale	event	staff_name	role
1	1	emergency	32	32	44	76	67	70	none	Ethan Adams	nurse
1	1	emergency	32	32	44	76	67	70	none	Jamie Arnold	nurse
1	1	emergency	32	32	44	76	67	70	none	Margaret Hawkins DDS	nurse
1	1	emergency	32	32	44	76	67	70	none	Angie Henderson	doctor
1	1	emergency	32	32	44	76	67	70	none	Monica Herrera	nurse
1	1	emergency	32	32	44	76	67	70	none	Connie Lawrence	nurse
1	1	emergency	32	32	44	76	67	70	none	Zachary Hicks	nursing_assistant
1	1	emergency	32	32	44	76	67	70	none	Stephanie Ross	nursing_assistant
1	1	emergency	32	32	44	76	67	70	none	Lisa Jackson	nurse
1	1	emergency	32	32	44	76	67	70	none	Holly Wood	nurse
1	1	emergency	32	32	44	76	67	70	none	Justin Baker	nursing_assistant
1	1	emergency	32	32	44	76	67	70	none	Patty Perez	nurse
1	1	emergency	32	32	44	76	67	70	none	Lisa Hendley	nurse
1	1	emergency	32	32	44	76	67	70	none	Brian Ramirez	nurse
1	1	emergency	32	32	44	76	67	70	none	Gina Moore	nurse

Result 2 ×

3. Display all patients and their services weekly statistics
(if available)

```
397 -- 3.Display all patients and their services weekly statistics ( if available )
398 • SELECT p.patient_id, p.name AS patient_name, p.age, p.service,
399     sw.week, sw.month, sw.available_beds, sw.patients_admitted,
400     sw.patients_refused, sw.patients_request,
401     sw.patients_satisfaction, sw.staff_morale, sw.event
402     FROM patients AS p
403     LEFT JOIN services_weekly AS sw
404     ON p.service = sw.service;
```



patient_id	patient_name	age	service	week	month	available_beds	patients_admitted	patients_refused	patients_request	patients_satisfaction	staff_morale	event
PAT-003ce690	Larry Dixon	29	ICU	52	12	22	22	2	24	80	96	none
PAT-003ce690	Larry Dixon	29	ICU	51	12	18	15	0	15	87	80	none
PAT-003ce690	Larry Dixon	29	ICU	50	12	22	13	0	13	65	57	none
PAT-003ce690	Larry Dixon	29	ICU	49	12	16	16	6	22	83	64	none
PAT-003ce690	Larry Dixon	29	ICU	48	12	16	16	7	23	98	76	none
PAT-003ce690	Larry Dixon	29	ICU	47	12	13	13	3	16	76	82	none
PAT-003ce690	Larry Dixon	29	ICU	46	12	23	23	5	28	89	75	flu
PAT-003ce690	Larry Dixon	29	ICU	45	12	18	18	24	42	70	54	flu
PAT-003ce690	Larry Dixon	29	ICU	44	11	12	12	4	16	73	87	none
PAT-003ce690	Larry Dixon	29	ICU	43	11	18	12	0	12	89	87	none
PAT-003ce690	Larry Dixon	29	ICU	42	11	16	12	0	12	80	55	none
PAT-003ce690	Larry Dixon	29	ICU	41	11	21	20	0	20	77	96	none
PAT-003ce690	Larry Dixon	29	ICU	40	10	12	12	3	15	97	84	none

DAILY CHALLENGE – DAY 14

1. Create a staff utilisation report showing all staff members (staff_id, staff_name, role, service)
 - And the count of weeks they were present (from staff_schedule)
 - Include staff members even if they have no schedule records.
 - Order by weeks present descending.

```
SELECT s.staff_id, s.staff_name, s.role, s.service,  
SUM(  
CASE  
WHEN ss.present = 'Yes' THEN 1  
ELSE 0  
END ) AS weeks_present  
FROM staff AS s  
LEFT JOIN staff_schedule AS ss  
ON s.staff_id = ss.staff_id  
GROUP BY s.staff_id , s.staff_name, s.role, s.service  
ORDER BY weeks_present DESC;
```



```
406 -- Daily Challenge - Day 14  
407 -- Create a staff utilisation report showing all staff members (staff_id, staff_name, role, service)  
408 -- And the count of weeks they were present (from staff_schedule)  
409 -- Include staff members even if they have no schedule records.  
410 -- Order by weeks present descending.  
411 •  SELECT s.staff_id, s.staff_name, s.role, s.service,  
412   SUM(  
413   CASE  
414     WHEN ss.present = 'Yes' THEN 1  
415     ELSE 0  
416   END ) AS weeks_present  
417   FROM staff AS s  
418   LEFT JOIN staff_schedule AS ss  
419   ON s.staff_id = ss.staff_id  
420   GROUP BY s.staff_id , s.staff_name, s.role, s.service  
421   ORDER BY weeks_present DESC;  
422
```

staff_id	staff_name	role	service	weeks_present
STP-02ae59ca	Noah Rhodes	doctor	emergency	24
STP-48fc5275	Amber Kidd	nurse	general_medicine	24
STP-994c0716	Angela Lopez	nursing_assistant	general_medicine	24
STP-0f0fd582	John Pierce	nursing_assistant	surgery	23
STP-052894a3	Richard Rodriguez	nurse	ICU	23
STP-1d299895	Christina Walters	nurse	ICU	23
STP-3014df2	James Brown	nurse	general_medicine	23
STP-302eb752	Erin Edwards	nursing_assistant	ICU	23
STP-3fb56209	Sierra Johnson	nursing_assistant	ICU	23
STP-598bd5c2	Sandra Aguilar	nurse	ICU	23
STP-600e004e	Winton Johnson	paramedic	ICU	22