



11/12/2025

DAY 10

#SQLWithIDC

[21 DAYS SQL CHALLENGE]



- Submitted By Divyanshi Doser
[INDIAN DATA CLUB]

PRACTICE QUESTIONS

1. Categories patients as 'High', 'Medium', 'Low' satisfaction based on their score.

```
SELECT name,  
CASE  
WHEN satisfaction >= 90 THEN 'High'  
WHEN satisfaction >= 75 THEN 'Medium'  
ELSE 'Low'  
END AS category FROM patients;
```

output

```
234 -- Practice Questions Day 10  
235 -- 1.Categories patients as 'High', 'Medium', 'Low' satisfaction based on their score.  
236  
237 • SELECT name,  
238 CASE  
239 WHEN satisfaction >= 90 THEN 'High'  
240 WHEN satisfaction >= 75 THEN 'Medium'  
241 ELSE 'Low'  
242 END AS category FROM patients;
```

name	category
Larry Dixon	Low
Victor Taylor	Medium
Amber Obrien	Low
Victoria Larson	High
Corey Whitaker	Low
Thomas Atkins	Low
Steven Howard	Low
Chris Velazquez	Low
Angela Lin	Medium
Melissa McFarland	Medium
Jordan Williams	High
Michelle Davis DVM	Medium

2. Label staff roles as 'Medical' or 'Support' based on role type.

```
SELECT role,  
CASE  
WHEN role IN ('doctor', 'nurse') THEN 'Medical'  
ELSE 'Support'  
END AS role_type FROM staff ;
```

output

```
243  
244 -- 2.Label staff roles as 'Medical' or 'Support' based on role type.  
245  
246 • SELECT role,  
247 CASE  
248 WHEN role IN ('doctor', 'nurse') THEN 'Medical'  
249 ELSE 'Support'  
250 END AS role_type FROM staff;
```

role	role_type
doctor	Medical
nursing_assistant	Support
nurse	Medical
nursing_assistant	Support
doctor	Medical
nurse	Medical
nurse	Medical
doctor	Medical
doctor	Medical
doctor	Medical
nurse	Medical
nurse	Medical
nurse	Medical
doctor	Medical

3. Create age groups for patients(0-18,19-40,41-65,65+)

```
SELECT patient_id, age,  
CASE  
WHEN age BETWEEN 0 AND 18 THEN '0-18'  
WHEN age BETWEEN 19 AND 40 THEN '19-40'  
WHEN age BETWEEN 41 AND 65 THEN '41-65'  
WHEN age > 65 THEN '65+'  
ELSE 'Unknown'  
END AS age_groups FROM patients;
```

output

```
252 -- 3.Create age groups for patients(0-18,19-40,41-65,65+)  
253 • SELECT patient_id, age,  
254 CASE  
255 WHEN age BETWEEN 0 AND 18 THEN '0-18'  
256 WHEN age BETWEEN 19 AND 40 THEN '19-40'  
257 WHEN age BETWEEN 41 AND 65 THEN '41-65'  
258 WHEN age > 65 THEN '65+'  
259 ELSE 'Unknown'  
260 END AS age_groups FROM patients;
```

patient_id	age	age_groups
PAT-003ce690	29	19-40
PAT-00883d3c	0	0-18
PAT-00b64d32	4	0-18
PAT-029113eb	84	65+
PAT-02ae68da	36	19-40
PAT-02f2e75d	70	65+
PAT-0307a640	11	0-18
PAT-030f2b7d	44	41-65
PAT-032160f4	50	41-65
PAT-03a1bd78	3	0-18
PAT-03ae75aa	61	41-65
PAT-034b05f3	83	65+

DAILY CHALLENGE – DAY 10

1. Create a service performance report showing service name, total patients admitted, and a performance category based on the following:
 - 'Excellent' if avg satisfaction ≥ 85 , 'Good' if ≥ 75 , 'Fair' if ≥ 65 , otherwise 'Needs Improvement'.
 - Order by average satisfaction descending.

```
SELECT service, SUM(patients_admitted) AS total_patients_admitted,
CASE
WHEN AVG(patients_satisfaction) >= 85 THEN 'Excellent'
WHEN AVG(patients_satisfaction) >= 75 THEN 'Good'
WHEN AVG(patients_satisfaction) >= 65 THEN 'Fair'
ELSE 'Needs Improvement'
END AS performance_category FROM services_weekly
GROUP BY service
ORDER BY performance_category DESC ;
```



```
262 -- Daily Challenge - Day 10
263 -- Create a service performance report showing service name, total patients admitted, and a performance category based on the following:
264 -- 'Excellent' if avg satisfaction >= 85, 'Good' if >= 75, 'Fair' if >=65, otherwise 'Needs Improvement'.
265 -- Order by average satisfaction descending.
266 • SELECT service, SUM(patients_admitted) AS total_patients_admitted,
267 CASE
268 WHEN AVG(patients_satisfaction) >= 85 THEN 'Excellent'
269 WHEN AVG(patients_satisfaction) >= 75 THEN 'Good'
270 WHEN AVG(patients_satisfaction) >= 65 THEN 'Fair'
271 ELSE 'Needs Improvement'
272 END AS performance_category
273 FROM services_weekly
274 GROUP BY service
275 ORDER BY performance_category DESC;
```

service	total_patients_admitted	performance_category
emergency	1185	Good
surgery	1686	Good
general_medicine	2332	Good
ICU	648	Good

