

11/12/2025

# DAY 10

## #SQLWithIDC

[ 21 DAYS SQL CHALLENGE ]

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# 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 Whittaker	Low
Thomas Atkins	Low
Steven Howard	Low
Chris Velázquez	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
rhrthr	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-030fb2bd	44	41-65
PAT-032160f4	50	41-65
PAT-03a1bd78	3	0-18
PAT-03ae75aa	61	41-65
PAT-03a10000	82	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  $\geq 85$ , 'Good' if  $\geq 75$ , 'Fair' if  $\geq 65$ , 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  $\geq 85$ , 'Good' if  $\geq 75$ , 'Fair' if  $\geq 65$ , 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;
```

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

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

