

11/10/2025

DAY 8

#SQLWithIDC

[21 DAYS SQL CHALLENGE]

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PRACTICE QUESTIONS

- Convert all patients names to upper case.

```
SELECT UPPER(name) AS name FROM patients;
```

output

```
180
181 -- Practice Questions Day 8
182
183 -- 1.Convert all patients names to upper case.
184 • SELECT UPPER(name) AS name FROM patients;
185
```

name
LARRY DIXON
VICTOR TAYLOR
AMBER OBIEN
VICTORIA LARSON
COREY WHITAKER
THOMAS ATKINS
STEVEN HOWARD
CHRIS VELAZQUEZ
ANGELA LIN
MELISSA MCFARLAND
JORDAN WILLIAMS
MICHELLE DAVIS DVM
DEAN DONOVAN
GEORGE HARPER
MICHAEL WANG
SCOTT ALEXANDER
JAKE SHAW
BRADLEY JOHNSON ...

- Find the length of each staff members name.

```
SELECT staff_name, LENGTH(staff_name)
AS length FROM staff ;
```

output

```
186
187 -- 2.Find the length of each staff members name.
188 • SELECT staff_name, LENGTH(staff_name) AS length FROM staff;
189
```

staff_name	length
Steve Sanchez	13
John Pierce	11
Denise Jacobs	13
Sharon Cochran	14
Noah Rhodes	11
Richard Rodriguez	17
William Herrera	15
Ryan Munoz	10
Rebecca Henderson	17
Mike Allen	10
Cristian Santos	15
Dylan Miller	12
Paula Moreno	12
Sherry Decker	13
Anthony Rodriguez	17
Angelica Tucker	15
Aaron Wise	10
Matthew Foster	14
Christina Walters	17

- Concatenate staff_id and staff_name with a hyphen separator.

```
SELECT CONCAT_WS('-', staff_id, staff_name)
AS concat_version FROM staff ;
```

output

```
190
191 -- 3.Concatenate staff_id and staff_name with a hyphen separator.
192 • SELECT CONCAT_WS('-', staff_id, staff_name) AS concat_version FROM staff;
193
```

concat_version
STF-00b6381d-Steve Sanchez
STF-00fb582-John Pierce
STF-0196d344-Denise Jacobs
STF-021ff9f9-Sharon Cochran
STF-02ae59ca-Noah Rhodes
STF-052894a3-Richard Rodriguez
STF-05591498-William Herrera
STF-054f10b-Ryan Munoz
STF-0aaed714-Rebecca Henderson
STF-0b0dfb38-Mike Allen
STF-107a58e4-Cristian Santos
STF-130577e6-Dylan Miller
STF-13f243fb-Paula Moreno
STF-15269d02-Sherry Decker
STF-15c07995-Anthony Rodriguez
STF-177e5df8-Angelica Tucker
STF-1881ede3-Aaron Wise
STF-1ad309fb3-Matthew Foster
STF-1b299895-Christina Walters

DAILY CHALLENGE – DAY 8

1. Create a patient summary that shows patient_id, full name in upper case, service in lowercase, age category(If age>= 65 then 'Senior', If age >= 18 then 'Adult', else 'Minor'), and name length. Only show patients whose name length is greater than 10 characters.

```
SELECT patient_id, UPPER(name) AS name, LOWER(service) AS service,  
CASE  
WHEN age >= 65 THEN 'Senior'  
WHEN age >= 18 THEN 'Adult'  
ELSE 'Minor'  
END AS age_category, LENGTH(name) AS name_length  
FROM patients  
WHERE LENGTH(name) > 10;
```



```
194 -- Daily Challenge - Day 8  
195 -- Create a patient summary that shows patient_id, full name in upper case, service in lowercase,  
196 -- age category(If age>= 65 then 'Senior', If age >= 18 then 'Adult', else 'Minor' ), and name length.  
197 -- Only show patients whose name length is greater than 10 characters.  
198 • SELECT patient_id, UPPER(name) AS name, LOWER(service) AS service,  
199 CASE  
200 WHEN age >= 65 THEN 'Senior'  
201 WHEN age >= 18 THEN 'Adult'  
202 ELSE 'Minor'  
203 END AS age_category, LENGTH(name) AS name_length  
204 FROM patients  
205 WHERE LENGTH(name) > 10;  
--
```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 6 ×

patient_id	name	service	age_category	name_length
PAT-003ce690	LARRY DIXON	icu	Adult	11
PAT-00883d3c	VICTOR TAYLOR	icu	Minor	13
PAT-00b64d32	AMBER O'BRIEN	general_medicine	Minor	12
PAT-029113eb	VICTORIA LARSON	surgery	Senior	15
PAT-02ae68da	COREY WHITAKER	icu	Adult	14
PAT-02f2e75d	THOMAS ATKINS	emergency	Senior	13
PAT-0307a640	STEVEN HOWARD	general_medicine	Minor	13
PAT-030f2b7d	CHRIS VELAZQUEZ	icu	Adult	15
PAT-03a1bd78	MELISSA MCFARLAND	emergency	Minor	17
PAT-03ae75aa	JORDAN WILLIAMS	surgery	Adult	15
PAT-03d0b953	MICHELLE DAVIS DVM	emergency	Senior	18
PAT-03f5abbe	DEAN DONOVAN	surgery	Minor	12
PAT-044a304c	GEORGE HARPER	surgery	Senior	13
PAT-0477a000	MICHAEL WANG	emergency	Minor	12