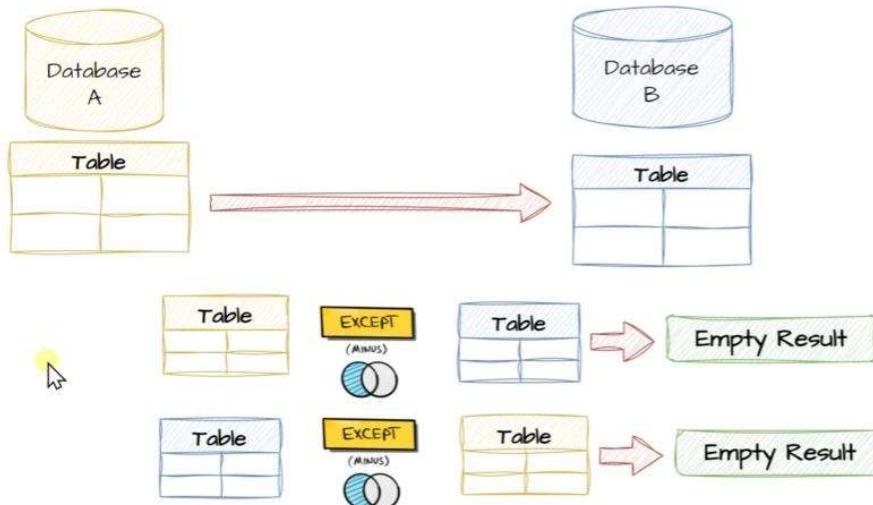


## DATA COMPLETENESS CHECK

EXCEPT operator can be used to compare tables to detect discrepancies between databases.

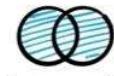


Improve data Migration quality

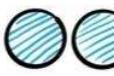
## SET OPERATORS

Combine the results of multiple queries into a single result set

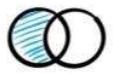
Types



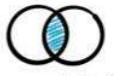
UNION



UNION ALL



EXCEPT



INTERSECT

RULES

- Same Nr. of Columns, Data Types, order of Columns.

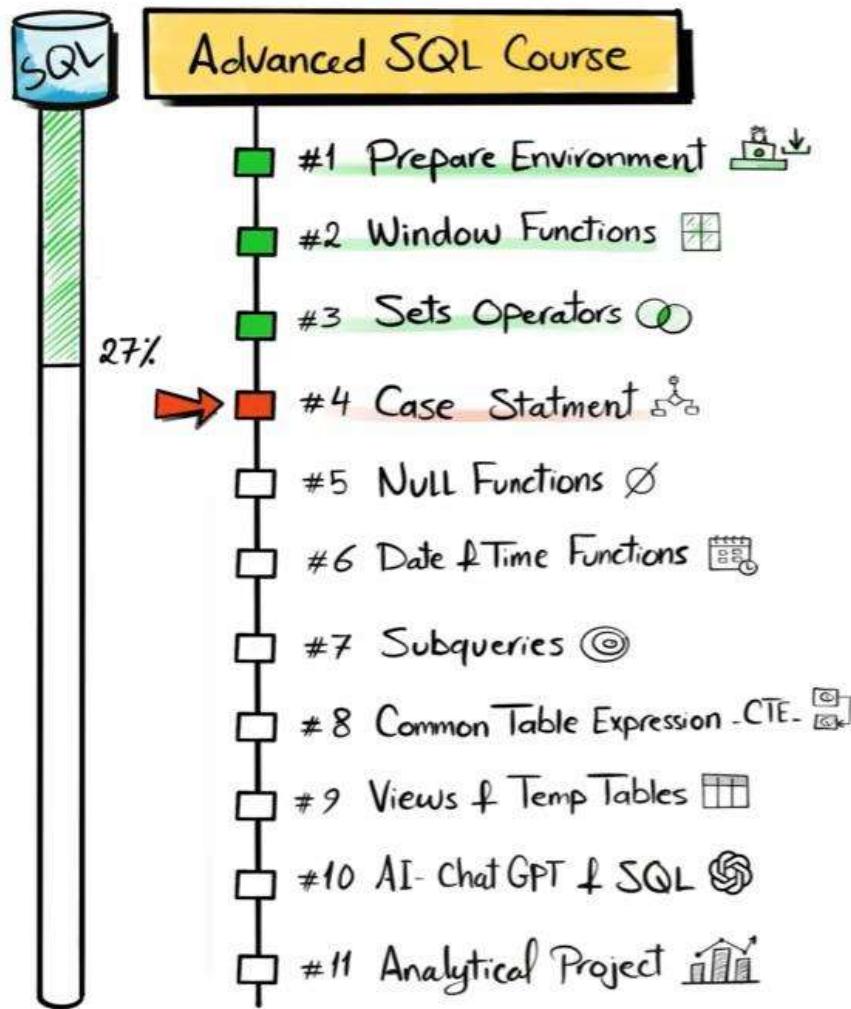
- 1st Query Controls Column names.

USE CASES

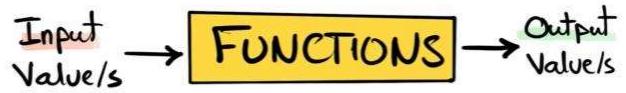
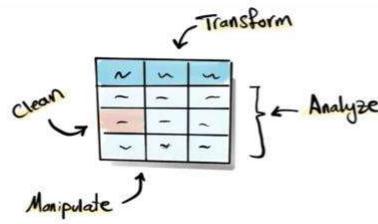
- Combine Information (UNION + UNION ALL)

- Delta Detection (EXCEPT)

- Data Completeness Check (EXCEPT)



SQL Functions:



**① Single-Row Functions**

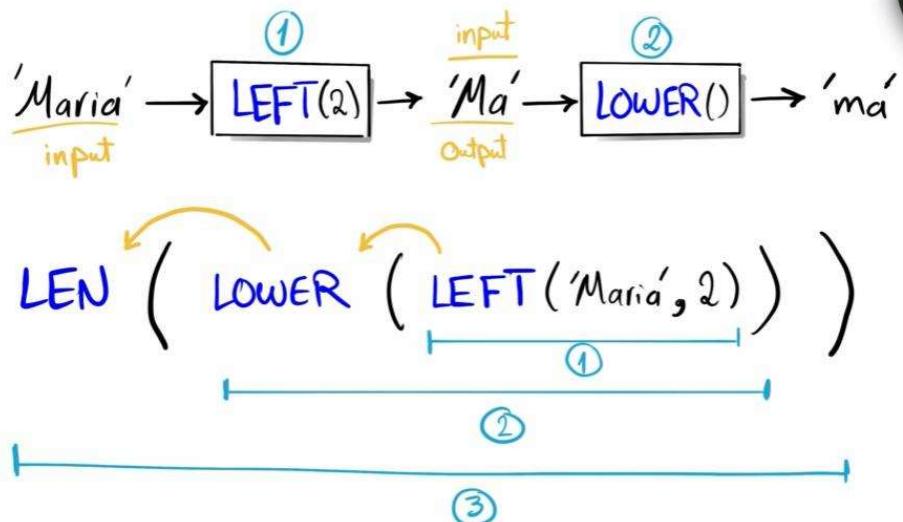
'MARIA' → **LOWER()** → 'maria'

**② Multi-Row Functions**

30 →  
10 →  
20 →  
40 → **SUM()** → 100

## NESTED FUNCTIONS

Function used inside another function





```

COALESCE (Score, CustomerID)
NULLIF (Score, 500)

WITH ProductOrders AS (
SELECT
    ProductID,
    SUM(Sales) Sales
FROM Sales.Orders
GROUP BY ProductID
)

SELECT
    p.ProductId,
    p.Product,
    p.Category,
    cte.Sales
FROM Sales.Products p
LEFT JOIN ProductOrders cte
ON cte.ProductID = p.ProductID

```

# Types of SQL FUNCTIONS

```

SELECT
    ProductID,
    SUM(Sales) Over(PARTITION BY
    ProductID) SalesByProduct
FROM Sales.Orders

```

```

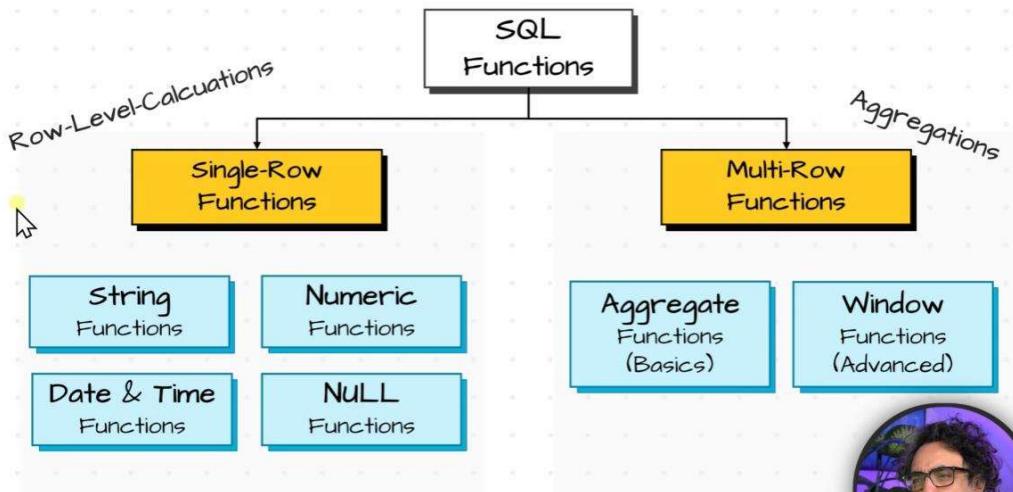
CASE WHEN Sales > 50 THEN 'High'
     WHEN Sales > 20 THEN 'Medi
     ELSE 'Low'

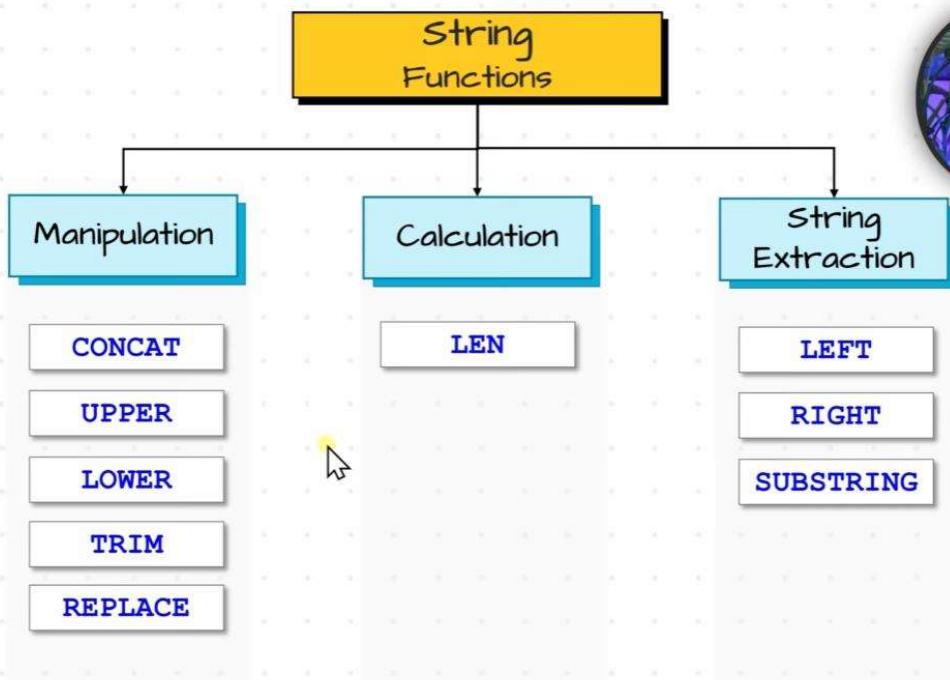
```

Single row function used to manipulate the data and prepare the data for the second group means for multi-row functions.

So data engineers used single row functions Inorder to clean up, manipulate, and transform the data inorder to prepare it for Analyzes

Multi-row functions used genrally by data analyst



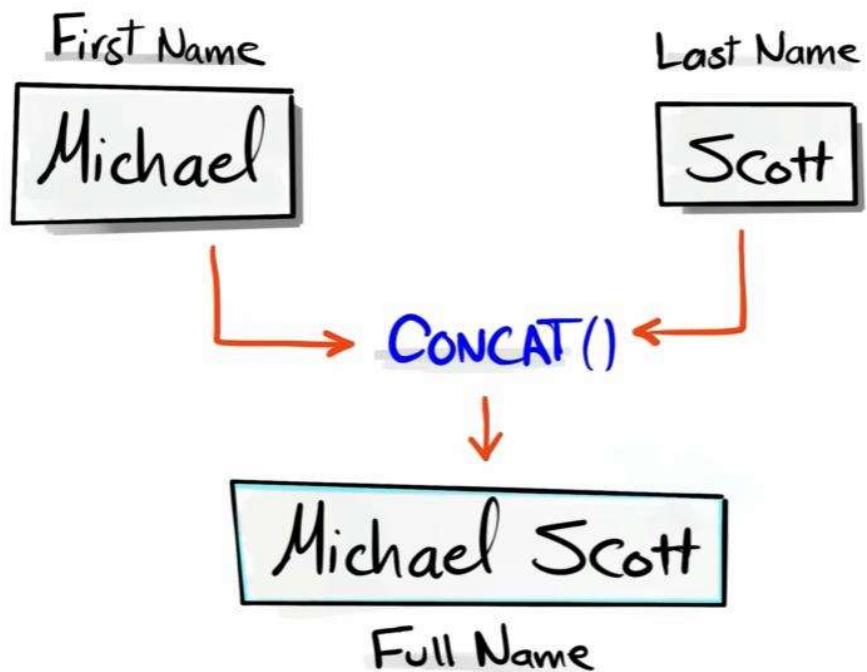


String Concatenation:



CONCAT

Combines multiple strings into one



```
-- Show a list of customers' first names together with their country in one column.
```

```
SELECT
first_name,
country,
CONCAT(first_name, ' ', country) AS name_country
FROM customers
```

Results

	first_name	country	name_country
1	Maria	Germany	Maria Germany
2	John	USA	John USA
3	Georg	UK	Georg UK
4	Martin	Germany	Martin Germany
5	Peter	USA	Peter USA



```

-- Show a list of customers' first names together with their country in one column.

]SELECT
first_name,
country,
CONCAT(first_name, ' - ', country) AS name_country
FROM customers

```

Results

	first_name	country	name_country
1	Maria	Germany	Maria-Germany
2	John	USA	John-USA
3	Georg	UK	Georg-UK
4	Martin	Germany	Martin-Germany
5	Peter	USA	Peter-USA



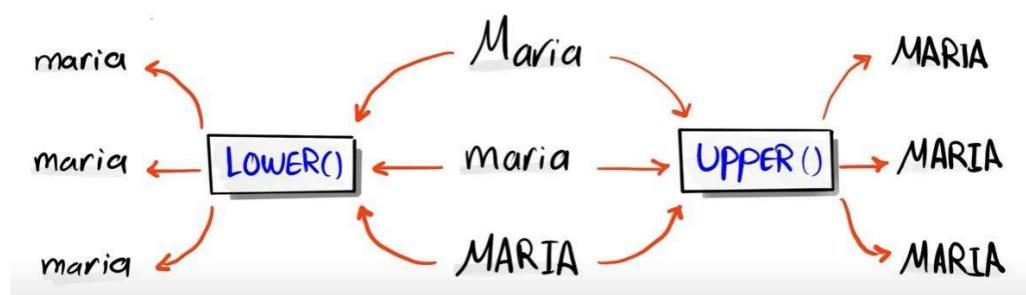
## Lower and Upper Function

**UPPER**

Converts all characters to **uppercase**

**LOWER**

Converts all characters to **lowercase**



```
-- Transform the customer's first name to lowercase
SELECT
first_name,
country,
CONCAT(first_name, '-', country) AS name_country,
LOWER(first_name) AS low_name
FROM customers
```

Results Messages

	first_name	country	name_country	low_name
1	Maria	Germany	Maria-Germany	maria
2	John	USA	John-USA	john
3	Georg	UK	Georg-UK	georg
4	Martin	Germany	Martin-Germany	martin
5	Peter	USA	Peter-USA	peter

```
-- Transform the customer's first name to uppercase.
SELECT
first_name,
country,
CONCAT(first_name, '-', country) AS name_country,
LOWER(first_name) AS low_name,
UPPER(first_name) AS up_name
FROM customers
```

Results Messages

	first_name	country	name_country	low_name	up_name
1	Maria	Germany	Maria-Germany	maria	MARIA
2	John	USA	John-USA	john	JOHN
3	Georg	UK	Georg-UK	georg	GEORG
4	Martin	Germany	Martin-Germany	martin	MARTIN
5	Peter	USA	Peter-USA	peter	PETER

**CONCAT**

Combines multiple strings into one

**UPPER**

Converts all characters to uppercase

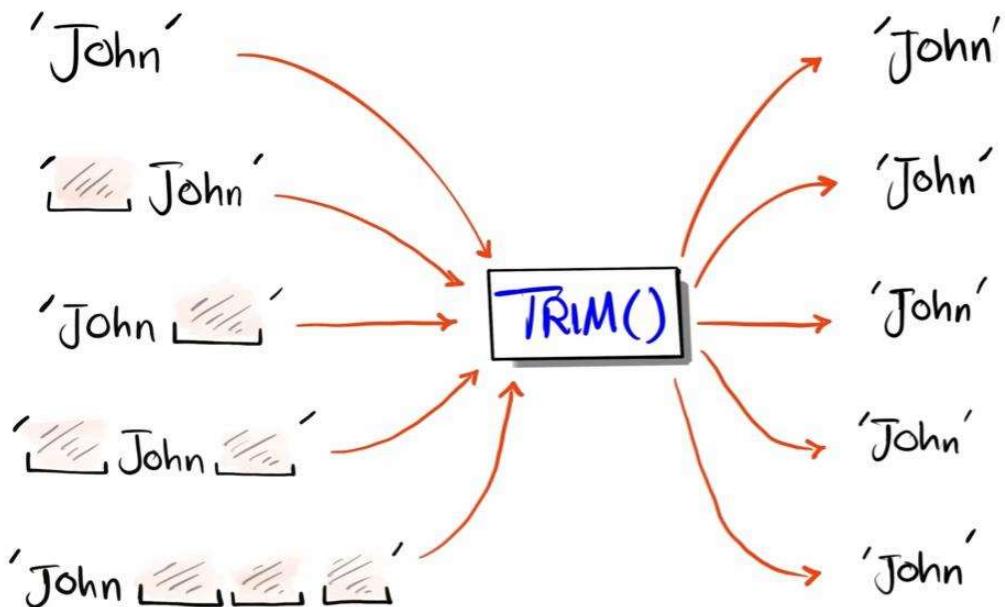
**LOWER**

Converts all characters to lowercase

**TRIM**

Removes Leading and Trailing spaces

Means trim remove space from start and at end



Detect Leading and Trailing space

-- Find customers whose first name contains leading or trailing spaces

**SELECT**

first\_name

**FROM** customers

**WHERE** first\_name != **TRIM**(first\_name)

	Results	Messages
1	first_name	
1	John	



```
-- Find customers whose first name contains leading or trailing spaces

SELECT
    first_name,
    LEN(first_name) len_name
FROM customers
--WHERE first_name != TRIM(first_name)
```

Results Messages

	first_name	len_name
1	Maria	5
2	John	5
3	Georg	5
4	Martin	6
5	Peter	5



```
-- Find customers whose first name contains leading or trailing spaces

SELECT
    first_name,
    LEN(first_name) len_name,
    LEN(TRIM(first_name)) len_trim_name
FROM customers
--WHERE first_name != TRIM(first_name)
```

Results Messages

	first_name	len_name	len_trim_name
1	Maria	5	5
2	John	5	4
3	Georg	5	5
4	Martin	6	6
5	Peter	5	5



```
-- Find customers whose first name contains leading or trailing spaces
SELECT
    first_name,
    LEN(first_name) len_name,
    LEN(TRIM(first_name)) len_trim_name,
    LEN(first_name) - LEN(TRIM(first_name)) flag
FROM customers
--WHERE first_name != TRIM(first_name)
```

Results Messages

	first_name	len_name	len_trim_name	flag
1	Maria	5	5	0
2	John	5	4	1
3	Georg	5	5	0
4	Martin		6	0
5	Peter		5	0



```
-- Find customers whose first name contains leading or trailing spaces
SELECT
    first_name,
    LEN(first_name) len_name,
    LEN(TRIM(first_name)) len_trim_name,
    LEN(first_name) - LEN(TRIM(first_name)) flag
FROM customers
WHERE LEN(first_name) != LEN(TRIM(first_name))
-- WHERE first_name != TRIM(first_name)
```

Results Messages

	first_name	len_name	len_trim_name	flag
1	John	5	4	1



123 - 456 - 7890 →

REPLACE  
Old value = '-'  
New Value = ''

123 / 456 / 7890

Not Only Replace but also Remove!

123 - 456 - 7890 →

REPLACE  
Old value = '-'  
New Value = ''

123 456 7890

Nothing .. Blank

```
-- Remove dashes (-) from a phone number
```

```
SELECT
```

```
'123-456-7890' AS phone,  
REPLACE('123-456-7890', '-', '|') AS clean_phone
```

	phone	clean_phone
1	123-456-7890	1234567890



Usecase of Replace Functions:

```
-- Remove dashes (-) from a phone number
```

```
SELECT
```

```
'123-456-7890' AS phone,  
REPLACE('123-456-7890', '-', '/') AS clean_phone
```

	phone	clean_phone
1	123-456-7890	123/456/7890



Another usecase

```
-- Replace File Extence from txt to csv
```

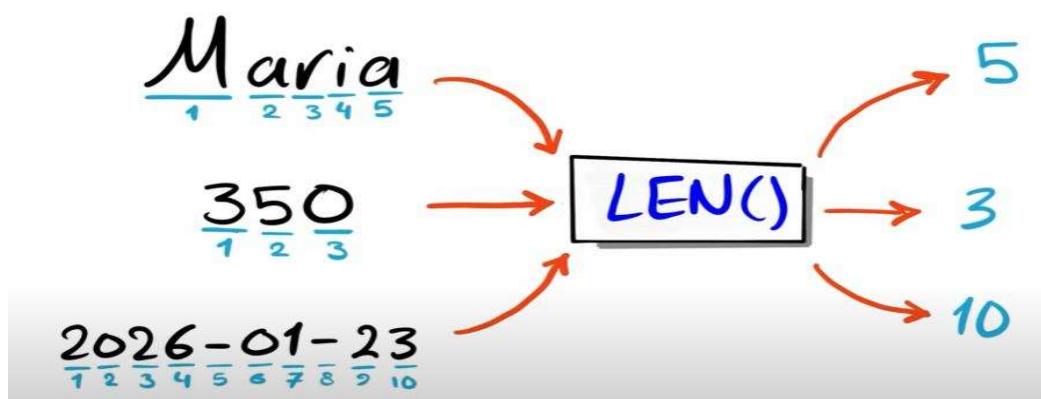
```
SELECT
```

```
'report.txt' AS old_filename,  
REPLACE('report.txt', '.txt', '.csv') AS new_filename
```

	old_filename	new_filename
1	report.txt	report.csv



CONCAT	Combines multiple strings into one
UPPER	Converts all characters to uppercase
LOWER	Converts all characters to lowercase
TRIM	Removes Leading and Trailing spaces
REPLACE	Replaces specific character with a new character
LEN	Counts how many characters



-- Calculate the length of each customer's first name.

```
SELECT
first_name,
LEN(first_name) AS len_name
FROM customers
```

Results

	first_name	len_name
1	Maria	5
2	John	5
3	Georg	5
4	Martin	6
5	Peter	5

<b>CONCAT</b>	Combines multiple strings into one
<b>UPPER</b>	Converts all characters to uppercase
<b>LOWER</b>	Converts all characters to lowercase
<b>TRIM</b>	Removes Leading and Trailing spaces
<b>REPLACE</b>	Replaces specific character with a new character
<b>LEN</b>	Counts how many characters
<b>LEFT</b>	Extracts specific Number of Characters from the start
<b>RIGHT</b>	Extracts specific Number of Characters from the End

**LEFT**(Value, Nr of characters)

Extract  
First 2 Characters

LEFT = 2

Ma

**RIGHT**(Value, Nr of characters)

Extract  
Last 2 Characters

RIGHT=2

ia



John has only J because it has leading space

```
-- Retrieve the first two characters of each first name.
```

```
SELECT  
    first_name,  
    LEFT(first_name, 2) first_2_char  
FROM customers
```

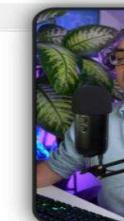
	first_name	first_2_char
1	Maria	Ma
2	John	J
3	Georg	Ge
4	Martin	Ma
5	Peter	Pe



```
-- Retrieve the first two characters of each first name.
```

```
SELECT  
    first_name,  
    LEFT(TRIM(first_name), 2) first_2_char  
FROM customers
```

	first_name	first_2_char
1	Maria	Ma
2	John	Jo
3	Georg	Ge
4	Martin	Ma
5	Peter	Pe



-- Retrieve the last two characters of each first name.

```
SELECT  
    first_name,  
    LEFT(TRIM(first_name), 2) first_2_char,  
    RIGHT(first_name, 2) last_2_char  
FROM customers
```

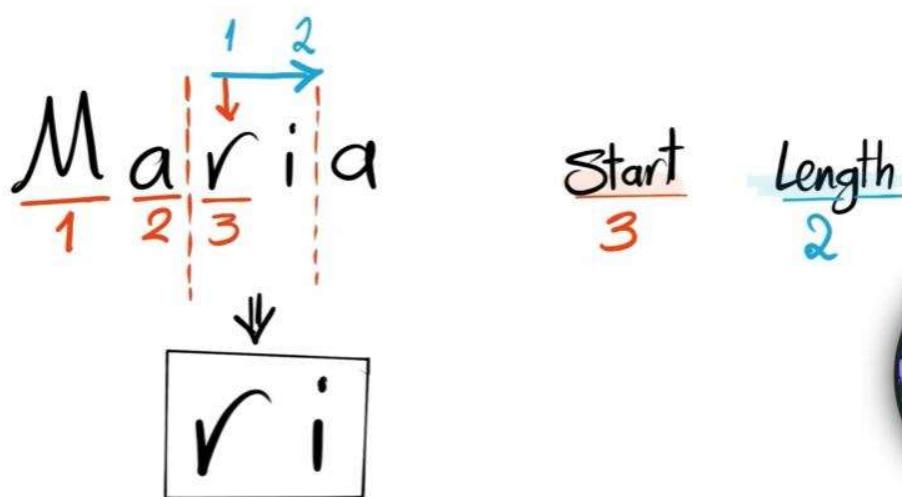
	first_name	first_2_char	last_2_char
1	Maria	Ma	ia
2	John	Jo	hn
3	Georg	Ge	rg
4	Martin	Ma	in
5	Peter	Pe	er

Substring

Extracts a part of string at a specified position

## SUBSTRING (Value, Start, Length)

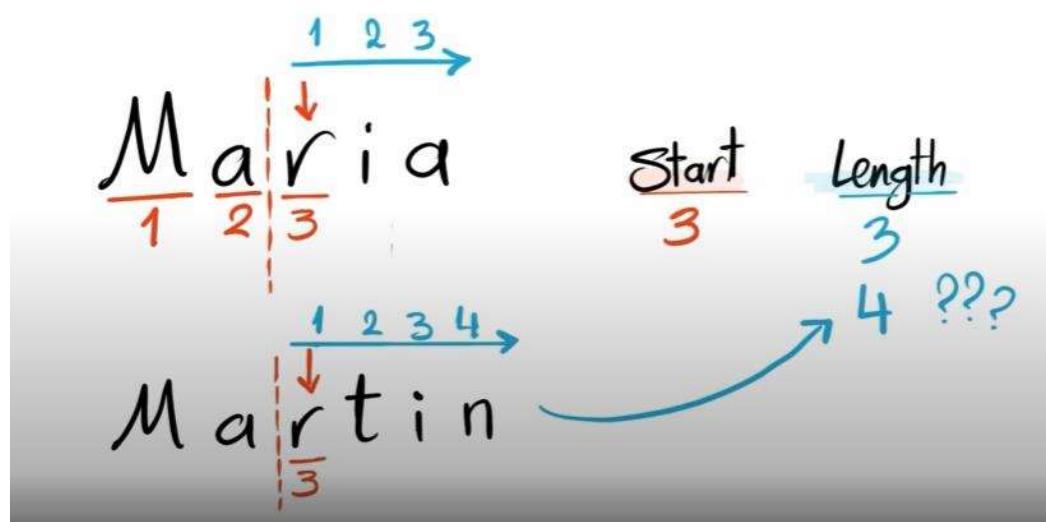
After the 2nd Character extract 2 Characters



We used len function to get exact number of len of value we did not used static length number  
We used dynamic length.

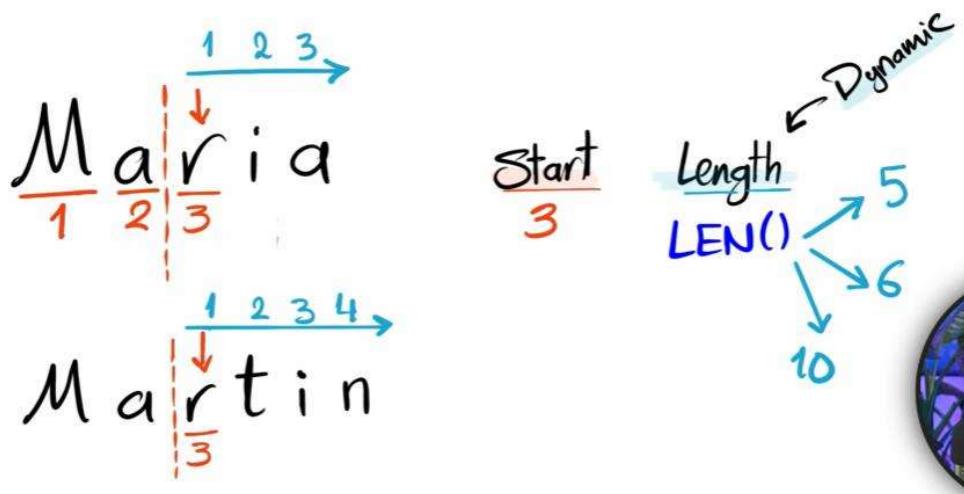
## SUBSTRING (Value, Start, Length)

After the 2nd Character extract All Characters



## SUBSTRING (Value, Start, Length)

After the 2nd Character extract All Characters



Issue of using static length value we want

```
-- Retrieve a list of customers' first names after removing the first character.
```

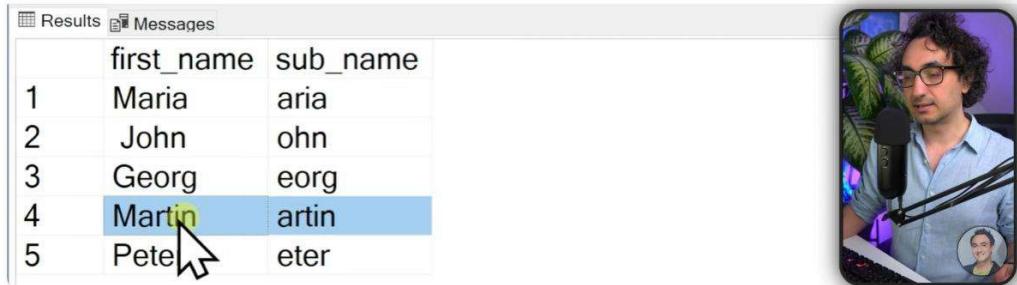
```
SELECT
    first_name,
    SUBSTRING(first_name, 2, 4) AS sub_name
FROM customers
```

	first_name	sub_name
1	Maria	aria
2	John	John
3	Georg	eorg
4	Martin	arti
5	Peter	eter



```
-- Retrieve a list of customers' first names after removing the first character.
```

```
SELECT
    first_name,
    SUBSTRING(TRIM(first_name), 2, LEN(first_name)) AS sub_name
FROM customers
```



	first_name	sub_name
1	Maria	aria
2	John	ohn
3	Georg	eorg
4	Martin	artin
5	Pete	eter



3.516

ROUND 2

3.516  
—  
1 2 3

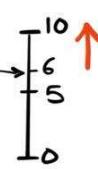


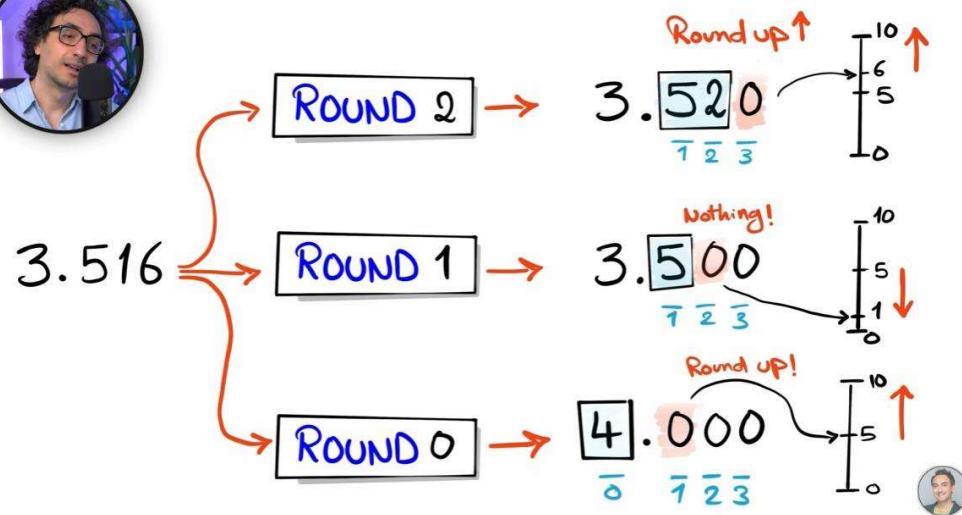
3.516

ROUND 2

3.520  
—  
1 2 3

Round up ↑





SELECT

3.516,

```
ROUND(3.516, 2) AS round_2
```

Results Messages

(No column name)	round_2
3.516	3.520

```

SELECT
3.516,
ROUND(3.516, 2) AS round_2,
ROUND(3.516, 1) AS round_1

```

Results Messages

	(No column name)	round_2	round_1
1	3.516	3.520	3.500

```

SELECT
3.516,
ROUND(3.516, 2) AS round_2,
ROUND(3.516, 1) AS round_1,
ROUND(3.516, 0) AS round_0

```



Results Messages

	(No column name)	round_2	round_1	round_0
1	3.516	3.520	3.500	4.000

ABS Absolute Function:  
Make negative number to positive

ABS

returns the absolute (positive) value of a number, removing any negative sign

	(No column name)	round_2	round_1	round_0
1	3.516	3.520	3.500	4.000

```
SELECT
```

```
-10,  
ABS(-10)
```

	(No column name)	(No column name)
1	-10	10

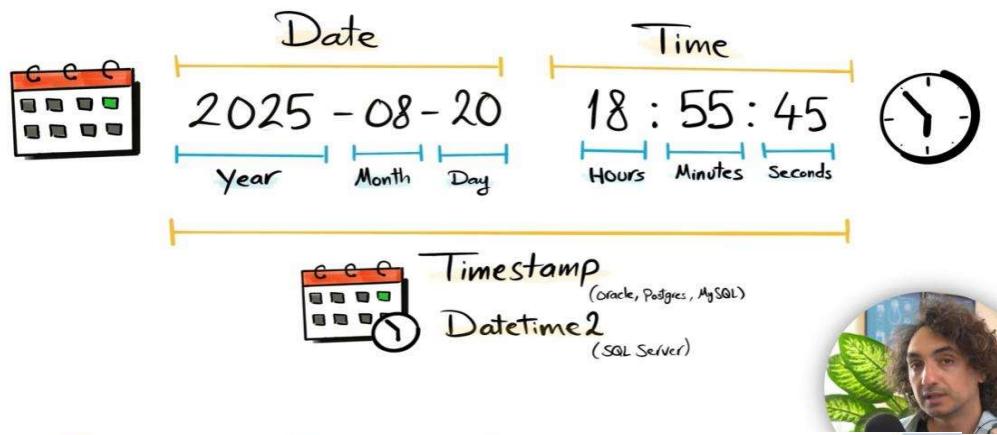


```
SELECT
```

```
-10,  
ABS(-10),  
ABS(10)
```



	(No column name)	(No column name)	(No column nam
1	-10	10	10



[+]	Graph Tables
[+]	Sales.Customers
[+]	Sales.Employees
[+]	Sales.Orders
[+]	Columns
[+]	OrderID (PK, int, not null)
[+]	ProductID (int, null)
[+]	CustomerID (int, null)
[+]	SalesPersonID (int, null)
[+]	OrderDate (date, null)
[+]	ShipDate (date, null)
[+]	OrderStatus (varchar(50), null)
[+]	ShipAddress (varchar(255), null)
[+]	BillAddress (varchar(255), null)
[+]	Quantity (int, null)
[+]	Sales (int, null)
[+]	<b>CreationTime (datetime2(7), null)</b>
[+]	Keys
[+]	Constraints

Object Explorer

Connect ▾

DESKTOP-84B8QBU\SQLEXPRESS (SQL Server 16.0.1000)

- Databases
  - System Databases
  - Database Snapshots
  - AdventureWorks2022
  - AdventureWorksDW2022
  - SalesDB
    - Tables
      - System Tables
      - FileTables
      - External Tables
      - Graph Tables
    - Sales.Customers
    - Sales.Employees
    - Sales.Orders
      - Columns
        - OrderID (PK int, not null)
        - ProductID (int, null)
        - CustomerID (int, null)
        - EmployeeID (int, null)
        - OrderStatus (int, null)
        - ShipDate (date, null)
        - ShipAddress (varchar(255), null)
        - BillAddress (varchar(255), null)
        - Quantity (int, null)
        - Extensions (int, null)
        - CreationTime (datetime2(7), null)
      - Keys
      - Constraints
      - Triggers
      - Indexes
      - Statistics
    - Sales.OrdersArchive
    - Sales.Products
    - Views

SQLQuery2.sql - D...8QBU\Youtube (65)\*

```
SELECT
    OrderID,
    OrderDate,
    ShipDate,
    CreationTime
FROM Sales.Orders
```

224 %

Results Messages

	OrderID	OrderDate	ShipDate	CreationTime
1	1	2025-01-01	2025-01-05	2025-01-01 12:34:56.0000000
2	2	2025-01-05	2025-01-10	2025-01-05 23:22:04.0000000
3	3	2025-01-10	2025-01-25	2025-01-10 18:24:08.0000000
4	4	2025-01-20	2025-01-25	2025-01-20 05:50:33.0000000
5	5	2025-02-01	2025-02-05	2025-02-01 14:02:41.0000000
6	6	2025-02-05	2025-02-10	2025-02-06 15:34:57.0000000
7	7	2025-02-15	2025-02-27	2025-02-16 06:22:01.0000000
8	8	2025-02-18	2025-02-27	2025-02-18 10:45:22.0000000
9	9	2025-03-10	2025-03-15	2025-03-10 12:59:04.0000000
10	10	2025-03-15	2025-03-20	2025-03-16 23:25:15.0000000

Query executed successfully.

DESKTOP-84B8QBU\SQLEXPRESS

Object Explorer

Connect ▾

DESKTOP-84B8QBU\SQLEXPRESS

- Databases
  - System Databases
  - Database Snapshots
  - AdventureWorks2022
  - AdventureWorksDW2022
  - SalesDB
    - Tables
      - System Tables
      - FileTables
      - External Tables
      - Graph Tables
    - Sales.Customers
    - Sales.Employees
    - Sales.Orders
      - Columns
        - OrderID (PK int, not null)
        - ProductID (int, null)
        - CustomerID (int, null)
        - EmployeeID (int, null)
        - OrderStatus (int, null)
        - ShipDate (date, null)
        - ShipAddress (varchar(255), null)
        - BillAddress (varchar(255), null)
        - Quantity (int, null)
        - Extensions (int, null)
        - CreationTime (datetime2(7), null)
      - Keys
      - Constraints
      - Triggers
      - Indexes
      - Statistics
    - Sales.OrdersArchive
    - Sales.Products
    - Views
    - External Resources
    - Synonyms
    - Programmability
    - Owner Store

SQLQuery1.sql - D...8QBU\Youtube (61)\*

```
SELECT
    OrderID,
    OrderDate,
    ShipDate,
    CreationTime
FROM Sales.Orders
```

Results Messages

	OrderID	OrderDate	ShipDate	Cr
1	1	2025-01-01	2025-01-05	20
2	2	2025-01-05	2025-01-10	20
3	3	2025-01-10	2025-01-25	20
6	6	2025-02-05	2025-02-10	20
7	7	2025-02-15	2025-02-27	20
8	8	2025-02-18	2025-02-27	20
9	9	2025-03-10	2025-03-15	20

#1 Date Column From a Table

#2 Hardcoded Constant String Value

```
SELECT
    OrderID,
    CreationTime
FROM Sales.Orders
```

	OrderID	CreationTime	HardCoded
1	1	2025-01-01 12:34:56.0000000	2025-08-20
2	2	2025-01-05 23:22:04.0000000	2025-08-20
3	3	2025-01-10 18:24:08.0000000	2025-08-20
6	6	2025-02-06 15:34:57.0000000	2025-08-20
7	7	2025-02-16 06:22:01.0000000	2025-08-20

```
SELECT
    OrderID,
    CreationTime,
    '2025-08-20' HardCoded
FROM Sales.Orders
```

	OrderID	CreationTime	HardCoded
1	1	2025-01-01 12:34:56.0000000	2025-08-20
2	2	2025-01-05 23:22:04.0000000	2025-08-20
3	3	2025-01-10 18:24:08.0000000	2025-08-20
4	4	2025-01-20 05:50:33.0000000	2025-08-20
5	5	2025-02-01 14:02:41.0000000	2025-08-20
6	6	2025-02-06 15:34:57.0000000	2025-08-20
7	7	2025-02-16 06:22:01.0000000	2025-08-20

The screenshot shows the Object Explorer on the left with various database objects listed. The SQL Query window on the right contains the following query:

```
SELECT  
    OrderID,  
    CreationTime,  
    '2025-08-20' HardCoded  
FROM Sales.Orders
```

The results pane shows the following data:

	OrderID	CreationTime
1	1	2025-01-01 12:34:56.000000
2	2	2025-01-05 23:22:04.000000
3	3	2025-01-10 18:24:08.000000
4	4	2025-01-11 06:50:33.000000
5	5	2025-01-11 09:02:41.000000
6	6	2025-02-06 15:34:57.000000
7	7	2025-02-16 06:22:01.000000
8	8	2025-02-18 10:45:22.000000
9	9	2025-03-10 12:59:04.000000

## #3 GETDATE() Function

### GETDATE()

Returns the current date and time at the moment when the query is executed.

Object Explorer

SQLQuery1.sql - D:\8QBU\Youtube (61)\*

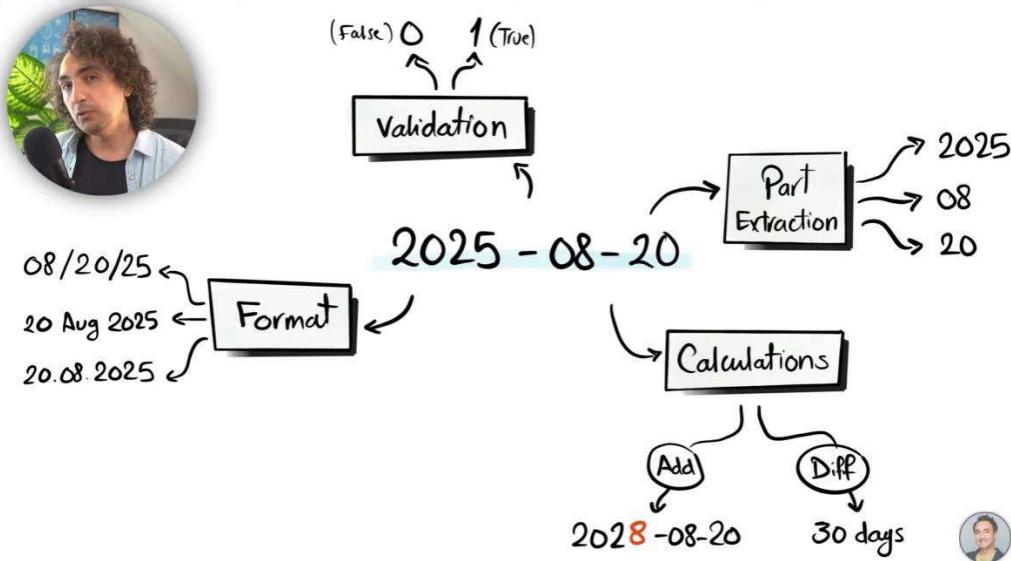
```

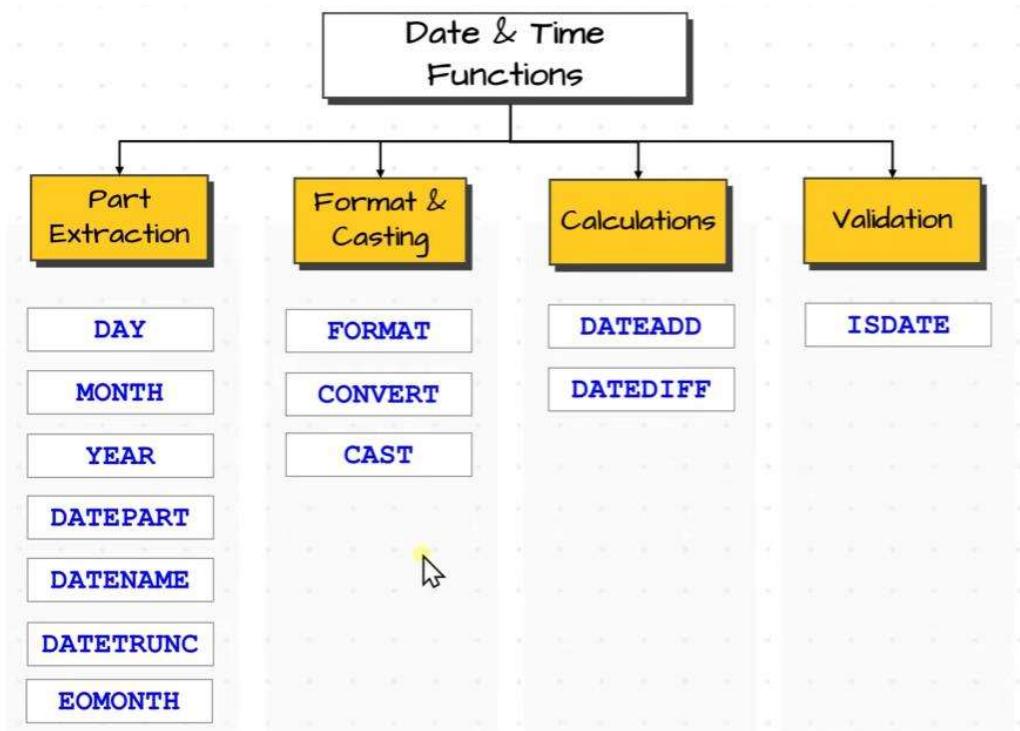
SELECT
    OrderID,
    CreationTime,
    '2025-08-20' HardCoded,
    GETDATE() Today
FROM Sales.Orders
  
```

Results

	OrderID	CreationTime	HardCoded	Today
1	1	2025-01-01 12:34:56.0000000	2025-08-20	2024-07-18 20:40:22.187
2	2	2025-01-05 23:22:04.0000000	2025-08-20	2024-07-18 20:40:22.187
3	3	2025-01-10 18:24:08.0000000	2025-08-20	2024-07-18 20:40:22.187
4	4	2025-01-20 05:50:33.0000000	2025-08-20	2024-07-18 20:40:22.187
5	5	2025-02-01 14:02:41.0000000	2025-08-20	2024-07-18 20:40:22.187
6	6	2025-02-06 15:34:57.0000000	2025-08-20	2024-07-18 20:40:22.187
7	7	2025-02-16 06:22:01.0000000	2025-08-20	2024-07-18 20:40:22.187
8	8	2025-02-18 10:45:22.0000000	2025-08-20	2024-07-18 20:40:22.187
9	9	2025-03-10 12:59:04.0000000	2025-08-20	2024-07-18 20:40:22.187
10	10	2025-03-16 23:25:15.0000000	2025-08-20	2024-07-18 20:40:22.187

## How to manipulate date time information





## **DAY ()**

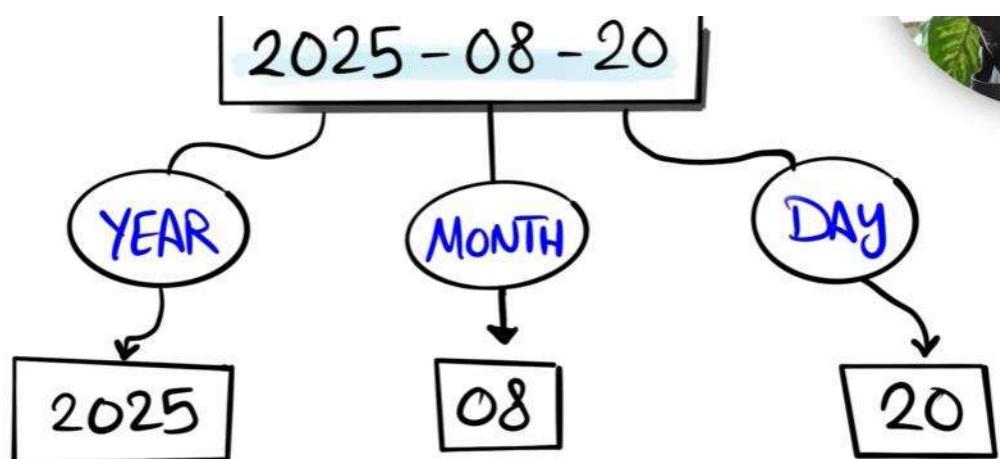
returns the day from a date

## **MONTH ()**

returns the month from a date

## **YEAR ()**

returns the year from a date



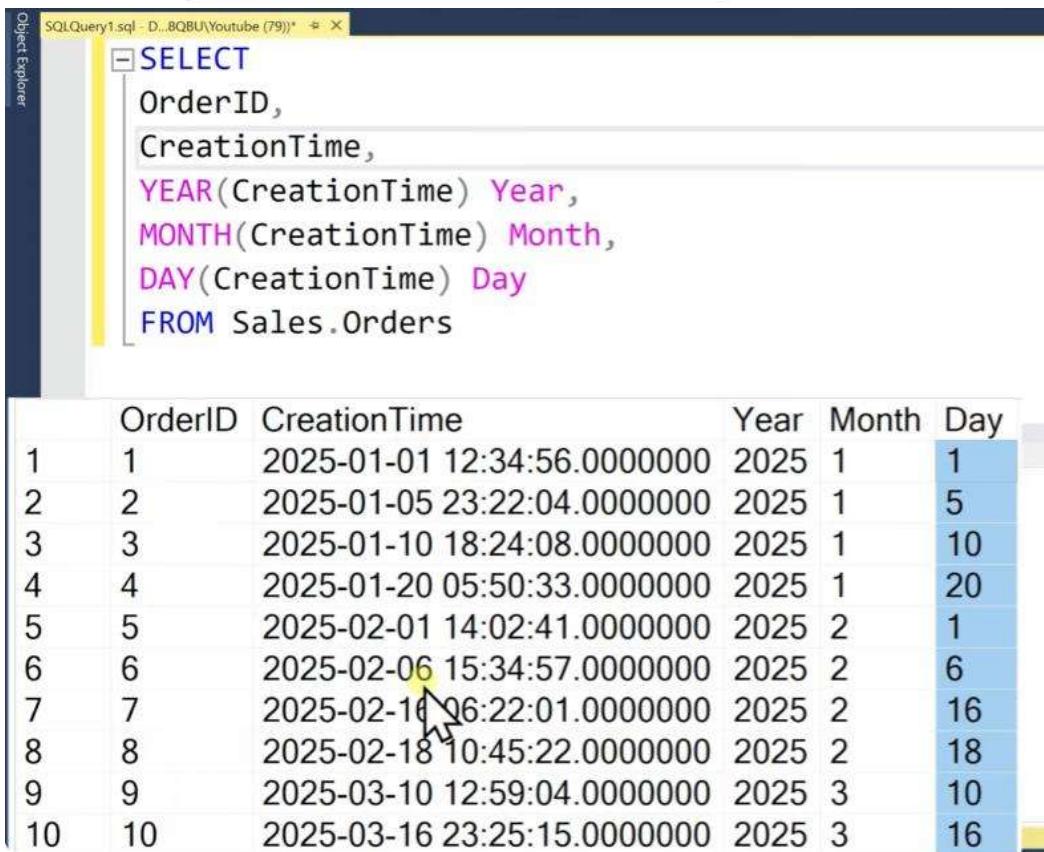
## Syntax

**DAY (date)**

**MONTH (date)**



**YEAR (date)**



```
SQLQuery1.sql - D..8Q8U\Youtube (79)*  ↗ X
Object Explorer
SELECT
    OrderID,
    CreationTime,
    YEAR(CreationTime) Year,
    MONTH(CreationTime) Month,
    DAY(CreationTime) Day
FROM Sales.Orders
```

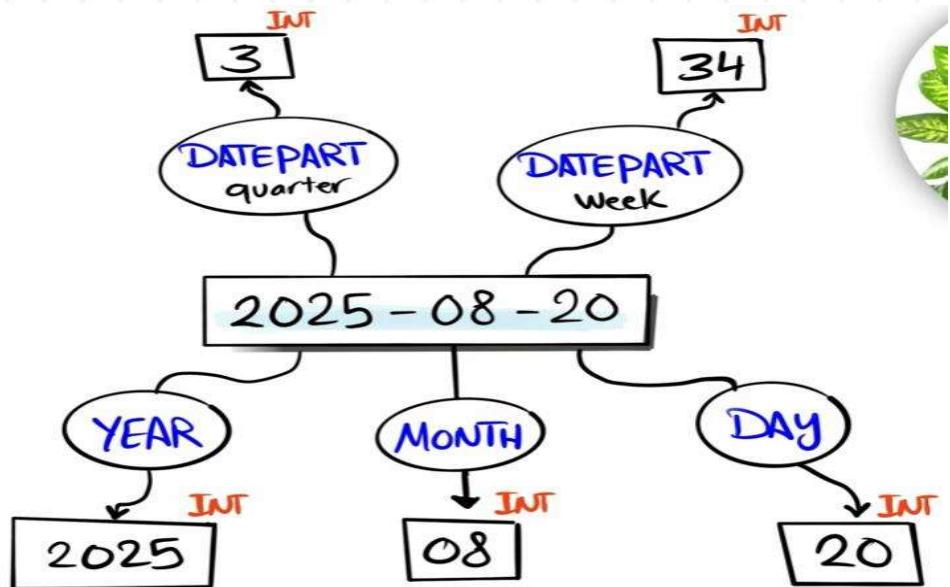
	OrderID	CreationTime	Year	Month	Day
1	1	2025-01-01 12:34:56.0000000	2025	1	1
2	2	2025-01-05 23:22:04.0000000	2025	1	5
3	3	2025-01-10 18:24:08.0000000	2025	1	10
4	4	2025-01-20 05:50:33.0000000	2025	1	20
5	5	2025-02-01 14:02:41.0000000	2025	2	1
6	6	2025-02-06 15:34:57.0000000	2025	2	6
7	7	2025-02-16 06:22:01.0000000	2025	2	16
8	8	2025-02-18 10:45:22.0000000	2025	2	18
9	9	2025-03-10 12:59:04.0000000	2025	3	10
10	10	2025-03-16 23:25:15.0000000	2025	3	16

Datepart Function -

Returns specific part of date or a number

## DATEPART()

Returns a specific part of a date as a number.



### Syntax

```
DATEPART(part, date)
```

### Examples

```
DATEPART(month, OrderDate)
```

Part

```
DATEPART(mm , '2025-08-20')
```

Abbreviation of Part

```

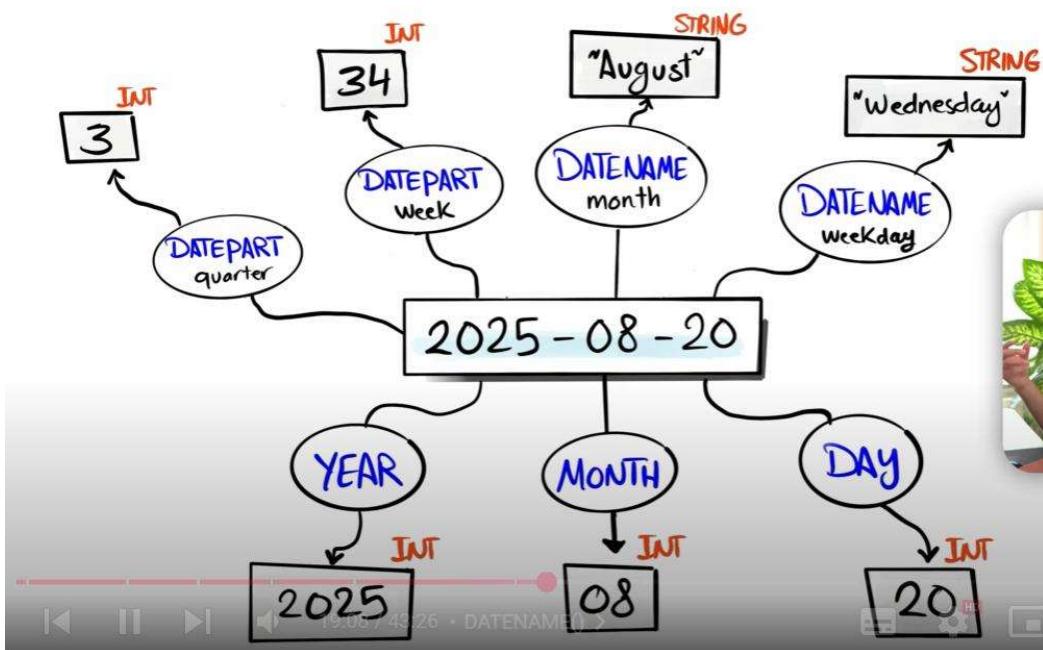
SELECT
    OrderID,
    CreationTime,
    DATEPART(year, CreationTime) Year_dp,
    DATEPART(month, CreationTime) Month_dp,
    DATEPART(day, CreationTime) Day_dp,
    DATEPART(hour, CreationTime) Hour_dp,
    DATEPART(quarter, CreationTime) Quarter_dp,
    DATEPART(week, CreationTime) Week_dp,
    VARY(CreationTime) Year

```

	OrderID	CreationTime	Year_dp	Month_dp	Day_dp	Hour_dp	Quarter_dp	Week_dp	Year	Month	Day
1	1	2025-01-01 12:34:56.0000000	2025	1	1	12	1	1	2025	1	1
2	2	2025-01-05 23:22:04.0000000	2025	1	5	23	1	2	2025	1	5
3	3	2025-01-10 18:24:08.0000000	2025	1	10	18	1	2	2025	1	10
4	4	2025-01-20 05:50:33.0000000	2025	1	20	5	1	4	2025	1	20
5	5	2025-02-01 14:02:41.0000000	2025	2	1	14	1	5	2025	2	1
6	6	2025-02-06 15:34:57.0000000	2025	2	6	15	1	6	2025	2	6
7	7	2025-02-16 06:22:01.0000000	2025	2	16	6	1	8	2025	2	16
8	8	2025-02-18 10:45:22.0000000	2025	2	18	10	1	8	2025	2	18
9	9	2025-03-10 12:59:04.0000000	2025	3	10	12	1	11	2025	3	10
10	10	2025-03-16 23:25:15.0000000	2025	3	16	23	1	12	2025	3	16

## DATENAME ()

Returns the name of a specific part of a date.





SQLQuery1.sql - D:\8QBU\Youtube (79)\*

```

Object Explorer
SELECT
    OrderID,
    CreationTime,
    DATENAME(month, CreationTime) Month_dn,
    DATENAME(weekday, CreationTime) weekday_dn,
    DATENAME(day, CreationTime) Day_dn,
    DATENAME(year, CreationTime) Year_dn,
    -- DATEPART Examples
    DATEPART(year, CreationTime) Year_dp,
    DATEPART(month, CreationTime) Month_dp,
    DATEPART(day, CreationTime) Day_dp
185 %
Results Messages
OrderID CreationTime Month_dn weekday_dn Day_dn Year_dn Year_dp Month_dp Day_dp Hour_dp Qi
1 1 2025-01-01 12:34:56.0000000 January Wednesday 1 2025 2025 1 1 12 1
2 2 2025-01-05 23:22:04.0000000 January Sunday 5 2025 2025 1 5 23 1
3 3 2025-01-10 18:24:08.0000000 January Friday 10 2025 2025 1 10 18 1
4 4 2025-01-20 05:50:33.0000000 January Monday 20 2025 2025 1 20 5 1
5 5 2025-02-01 14:02:41.0000000 February Saturday 1 2025 2025 2 1 14 1
6 6 2025-02-06 15:34:57.0000000 February Thursday 6 2025 2025 2 6 15 1
7 7 2025-02-16 06:22:01.0000000 February Sunday 16 2025 2025 2 16 6 1
8 8 2025-02-18 10:45:22.0000000 February Tuesday 18 2025 2025 2 18 10 1
9 9 2025-03-10 12:59:04.0000000 March Monday 10 2025 2025 3 10 12 1
10 10 2025-03-16 23:25:15.0000000 March Sunday 16 2025 2025 3 16 23 1

```

Chuva executed successfully.



Usecase of datename



## DATETRUNC()

Truncates the date to the specific part.

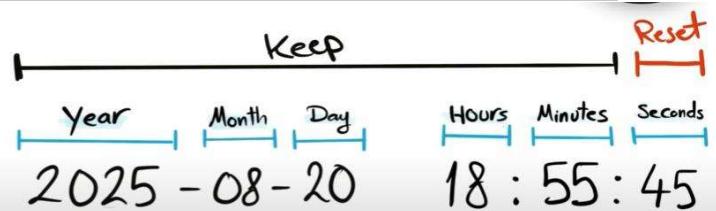
Syntax

**DATEPART (part, date)**

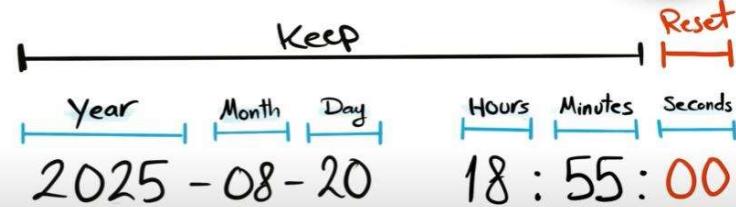
**DATENAME (part, date)**

**DATETRUNC (part, date)**

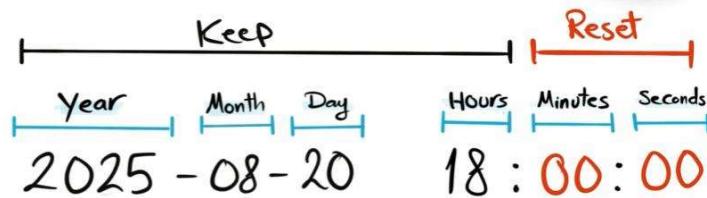
DATETRUNC  
minute



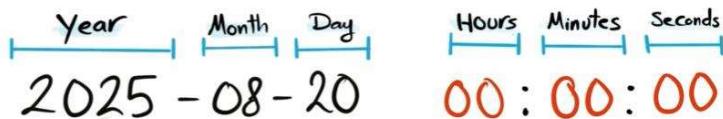
DATETRUNC  
minute



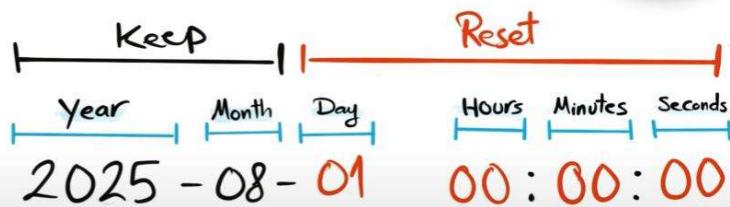
DATETRUNC  
hour



DATETRUNC  
day



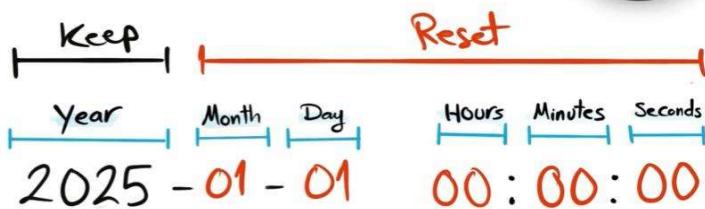
DATETRUNC  
month



Datepart resets to 01

Time part resets to 00

DATETRUNC  
year



SQLQuery1.sql - D:\BQBU\Youtube (79).sql

```

SELECT
    OrderID,
    CreationTime,
    -- DATETRUNC Examples
    DATETRUNC(year, CreationTime) Year_dt,
    DATETRUNC(day, CreationTime) Day_dt,
    DATETRUNC(minute, CreationTime) Minute_dt,
    -- DATENAME Examples
    DATENAME(month, CreationTime) Month_dn,
    DATENAME(weekday, CreationTime) Weekday_dn,
    DATENAME(day, CreationTime) Day_dn

```

	OrderID	CreationTime	Year_dt	Day_dt	Minute_dt	Month
1	1	2025-01-01 12:34:56.0000000	2025-01-01 00:00:00.0000000	2025-01-01 00:00:00.0000000	2025-01-01 12:34:00.0000000	Janu
2	2	2025-01-05 23:22:04.0000000	2025-01-05 00:00:00.0000000	2025-01-05 00:00:00.0000000	2025-01-05 23:22:00.0000000	Janu
3	3	2025-01-10 18:24:08.0000000	2025-01-10 00:00:00.0000000	2025-01-10 00:00:00.0000000	2025-01-10 18:24:00.0000000	Janu
4	4	2025-01-20 05:50:33.0000000	2025-01-20 00:00:00.0000000	2025-01-20 00:00:00.0000000	2025-01-20 05:50:00.0000000	Janu
5	5	2025-02-01 14:02:41.0000000	2025-02-01 00:00:00.0000000	2025-02-01 00:00:00.0000000	2025-02-01 14:02:00.0000000	Febr
6	6	2025-02-06 15:34:57.0000000	2025-02-06 00:00:00.0000000	2025-02-06 00:00:00.0000000	2025-02-06 15:34:00.0000000	Febr
7	7	2025-02-16 06:22:01.0000000	2025-02-16 00:00:00.0000000	2025-02-16 00:00:00.0000000	2025-02-16 06:22:00.0000000	Febr
8	8	2025-02-18 10:45:22.0000000	2025-02-18 00:00:00.0000000	2025-02-18 00:00:00.0000000	2025-02-18 10:45:00.0000000	Febr
9	9	2025-03-10 12:59:04.0000000	2025-03-10 00:00:00.0000000	2025-03-10 00:00:00.0000000	2025-03-10 12:59:00.0000000	Marc
10	10	2025-03-16 23:25:15.0000000	2025-03-16 00:00:00.0000000	2025-03-16 00:00:00.0000000	2025-03-16 23:25:00.0000000	Mar

Query executed successfully.

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