Day 13
COALESCE function

COALESCE Statements

- The MySQL **COALESCE()** function is used for returning the first non-null value in a list of expressions.
- The **COALESCE()** function accepts one parameter which is the list which can contain various values.

General Syntax :

```
COALESCE(value_1, value_2, ...., value_n);
```

Return Value :

- The MySQL **COALESCE()** function returns the first non-null value in a list of expressions or **NULL** if all the values in a list are **NULL**.

The **COALESCE()** function can be leveraged for treating missing(*NULL)* values in the DATA CLEANING process.
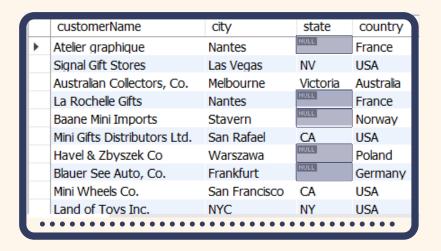
Aditya Shenoy

Use Case Example :

To substitute the **NULL** values in the 'state column' with '**N/A**'.

Query :

```sql
SELECT
    customerName, city, state, country
FROM
    customers;
```

Query :

```sql
SELECT
    customerName, city, COALESCE(state, 'N/A'), country
FROM
    customers;
```

Output :

customerName	city	state	country
▶ Atelier graphique	Nantes	NULL	France
Signal Gift Stores	Las Vegas	NV	USA
Australian Collectors, Co.	Melbourne	Victoria	Australia
La Rochelle Gifts	Nantes	NULL	France
Baane Mini Imports	Stavern	NULL	Norway
Mini Gifts Distributors Ltd.	San Rafael	CA	USA
Havel & Zbyszek Co	Warszawa	NULL	Poland
Blauer See Auto, Co.	Frankfurt	NULL	Germany
Mini Wheels Co.	San Francisco	CA	USA
Land of Toys Inc.	NYC	NY	USA

Output :

customerName	city	COALESCE(state, 'N/A')	country
▶ Atelier graphique	Nantes	N/A	France
Signal Gift Stores	Las Vegas	NV	USA
Australian Collectors, Co.	Melbourne	Victoria	Australia
La Rochelle Gifts	Nantes	N/A	France
Baane Mini Imports	Stavern	N/A	Norway
Mini Gifts Distributors Ltd.	San Rafael	CA	USA
Havel & Zbyszek Co	Warszawa	N/A	Poland
Blauer See Auto, Co.	Frankfurt	N/A	Germany
Mini Wheels Co.	San Francisco	CA	USA
Land of Toys Inc.	NYC	NY	USA

Aditya Shenoy