



# Day 5

# MySQL Subquery





# Subqueries

- A MySQL **subquery** is a query nested within another query such as `SELECT`, `INSERT`, `UPDATE` or `DELETE`.
- A MySQL **subquery** is called an inner query while the query that contains the subquery is called an outer query.
- The inner query executes first before its parent query so that the results of the inner query can be passed to the outer query.



# General Syntax :

```
SELECT select_list
FROM table
WHERE expr_operator
      (SELECT select_list
        FROM table) ;
```

## In this Syntax:

- The subquery (**inner query**) executes once before the main query (**outer query**) executes.
- The main query (**outer query**) use the subquery result.

# Use Case Example :

```
• SELECT
    lastName, firstName
FROM
    employees
WHERE
    officeCode IN (SELECT
                    officeCode
                  FROM
                    offices
                  WHERE
                    country = 'USA');
```

Output :

	lastName	firstName
▶	Murphy	Diane
	Patterson	Mary
	Firrelli	Jeff
	Bow	Anthony
	Jennings	Leslie
	Thompson	Leslie
	Firrelli	Julie
	Patterson	Steve
	Tseng	Foon Yue
	Vanauf	George