

Day 6 Correlated Subquery





SQL Correlated Subqueires

- Correlated subqueries are subqueries that reference one or more columns in the main query.
- Correlated subqueries depend on information in the main query to run, and thus, cannot be executed on their own.
- Correlated subqueries are used for row-by-row processing.



General Syntax:

```
SELECT column1, column2, ...

FROM table1 outer

WHERE column1 operator

(SELECT column1, column2

FROM table2

WHERE expr1 = outer.expr2);
```

Simple vs Correlated Subqueries

Simple Subquery

- Can be run independently from the main query.
- Evaluated once in the whole query.

Correlated Subquery

- Dependent on the main query to execute.
- Each subquery is executed once for every row of the outer query.