**Day 39 - 90 days of Analytics: SUB QUERIES**

In today’s video, we looked at subqueries in SQL

The following were mentioned

-A **Subquery** or **Inner query** or a **Nested query** is a query within another SQL query and embedded within the WHERE clause.

-A subquery is used to return data that will be used in the main query as a condition to further restrict the data to be retrieved.

-Subqueries can be used with the **SELECT** clause along with the operators like =, <, >, >=, <=, IN, BETWEEN, …

-Some rules we must follow when working with subqueries include

* Subqueries must be enclosed within brackets
* A subquery can have only one column in the SELECT clause, unless multiple columns are in the main query for the subquery to compare its selected columns.
* An **ORDER BY** command cannot be used in a subquery, although the main query can use an ORDER BY. The **GROUP BY** command can be used to perform the same function as the ORDER BY in a subquery.
* Subqueries that return more than one row can only be used with multiple value operators such as the **IN** operator.
* The **BETWEEN** operator cannot be used with a subquery. However, the BETWEEN operator can be used within the subquery

-Subqueries are most frequently used with the SELECT clause with syntax

SELECT column\_name

FROM table\_name

WHERE column\_name operator

(SELECT COLUMN\_NAME from TABLE\_NAME WHERE ...);

-Examples with sub queries

SELECT \*

FROM staff\_db.staffdemographic

WHERE Age =

(SELECT MIN(Age) FROM staff\_db.staffdemographic);

SELECT \*

FROM staff\_db.staffsalary

WHERE StaffID IN

(SELECT StaffID FROM staff\_db.staffdemographic)

ORDER BY Salary DESC

LIMIT 5;

Link to the YouTube Recording: <https://www.youtube.com/watch?v=S9FEu9pgmQg>

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