**Table

Description automatically generated with medium confidence**

# **Scalar Sub query**

Subquery which Always returns only 1 row and 1 column.

## **Using where clause**

Question 🡪 Find the employees whose salary is greater than the average salary earned by al the employees  
Table

Description automatically generated

## **Using join clause**

A picture containing table

Description automatically generated

# **Multiple Rows Sub query**

## **Subquery which returns multiple rows and multiple columns**

Question 🡪 Find the employees who earn the highest salary in each department   
Table

Description automatically generated

Only we obtain 4 records

Diagram

Description automatically generated

Only we obtain 5 records

## **Subquery which returns multiple rows and 1 column.**

Question 🡪 Find department who do not have any employees

Inner query returning only one column with multiple rows  
Graphical user interface, text, application, email

Description automatically generated

Outer query  
Graphical user interface, text, application

Description automatically generated

# **Nested Sub-Query**

Question -> Find stores who’s sales where better than the average sales across all the stores

1. Find the total sales of each store
2. Find the average sales for all the stores
3. Compare a) and b)

Total sales of each store (left table)

Graphical user interface, application, table

Description automatically generated

Average sales of all the stores (right table)  
Graphical user interface, text, application, email

Description automatically generated

Comparing both a) and b)

Graphical user interface, text, application, table

Description automatically generated Graphical user interface, text, application, chat or text message

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated