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Sub (Queries –	Introduction	to	Sub	Queries
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Version 1.0

1 - INTRODUCTION TO SUB QUERIES

1.1 Sub Query

A subquery is a query nested within another query. The containing query is called an outer query. A subquery in turn can have a nested query, making it a multiple nested query.

Syntax:

```
SELECT column_list
FROM table_name
WHERE
Column_name operator (SELECT column_list FROM table_name);
```

Subqueries can be used almost anywhere in an SQL statement, in any SQL command where an expression can be placed. Following are listed SQL statement clauses in which a subquery can be placed:

- > SELECT clause.
- WHERE clause.
- ORDER BY clause.
- > FROM clause (Inline view).
- > VALUES clause of an INSERT statement.
- > SET clause of an Update statement
- Create table statement

Guidelines:

While defining sub queries, certain guidelines need to be followed.

- > A sub query must be enclosed within parenthesis.
- > A sub query must appear on the right hand side of the operator.
- > A sub query must not contain an ORDER BY clause.

Example:

Consider the table SQ EMPLOYEE

MPNAME	EMPID	AGE	SALARY	LOCATION
ivek	1116	34	10000	TN
inod	1178	27	10009	BR
hanti	1200	25	9900	DH
arini	1000	45	15000	AP
harah	1115	34	13000	TH
aria	1203	25	11000	AP
Rohit	1155	30	12000	DH

The average salary of the employees is

Select avg(salary) from SQ_Employee

```
SQL> Select avg(salary) from SQ_Employee;
AUG(SALARY)
------
11558.4286
```

So if you want to find out the details of all the employees that get a salary that is greater than the average then you have to use the following query

select * from SQ_Employee E where e.salary > 11558;

SQL> select	* from SQ_	Employee E	where e.sa.	lary > 11558
EMPNAME	EMPID	AGE	SALARY	LOCATION
Harini	1000	45	15000	AP
Fharah	1115	34	13000	TN
Rohit	1155	30	12000	DH

Or we can combine both the queries like this

select * from SQ_Employee E where e.salary > (Select avg(salary) from SQ_Employee)

SQL> select * 2 e.salary	from SQ_En > (select	nployee E who avg(salary)	ere from SQ	_Employee);
EMPNAME	EMPI D	AGE	SALARY	LOCATION
Harini Fharah Rohit	1000 1115 1155	45 34 30	15000 13000 12000	TN

If you want to find out the employees who are in the same location as the employee 'Vivek' then

select * from SQ_Employee E where e.location = (select location from SQ_Employee where empname = 'Vivek');

2 e.locat	* from SQ_Emp ion = (select mpname = 'Viv	location	nere from SQ_1	Employee
EMPNAME	EMPID	AGE	SALARY	LOCATION
Vivek Fharah	1116 1115	34 34	10000 13000	