# [Oracle Database : SQL] Fundamentals I (Volume1)

Chapter - 06

# 1. What is Subquery?

Ans.

- A subquery is a SELECT statement that is embedded in a clause of another SELECT statement
- The subquery (inner query) executes once before the main query (outer query).
- The result of the subquery is used by the main query
- To avoid a Cartesian product, always include a valid join condition.

## 2. Types of Subqueries

**Single-row subsqueries:** Queries that return only one row from the inner SELECT statement.

Multi-row subqueries: Queries that returne more than one row from the inner SELECT statement.

### 3. What are the Guidelines for Using Subqueries?

- Enclose subqueries in parentheses.
- Place subqueries on the right side of the comparison condition.
- The ORDER BY clause in the subquery is not needed unless you are performing Top-N analysis.
- Use single-row operators with single-row subqueries, and use multiple-row operators with multiple-row subqueries.

## 4. Single-row subqueries

Single-row subqueries: Queries that return only one row from the inner SELECT statement

#### 5. single row operator

- =Equal to
- >Greater than
- >=Greater than or equal to
- <Less than
- <=Less than or equal to
- <>Not equal to

#### 6. multiple row sub query?

Sub queries that return more than one row are called multiple-row sub queries. You use a multiple-row operator, instead of a single-row operator, with a multiple-row sub query.

# 7. multiple row operator?

- Return more than one row
- Use multiple-row comparison operators
- ❖ IN
- ANY: <ANY means less than the maximum.</p>
  - >ANY means more than the minimum.
  - =ANY is equivalent to IN
- ALL.