

# Subqueries in SQL

## What is Subquery ?

A subquery is basically one query inside another query.

- Subqueries can be used along with these statements:
  - SELECT
  - INSERT
  - UPDATE &
  - DELETE

## Subquery with Select

```
SELECT *  
  FROM employee  
 WHERE e_id IN (SELECT e_id  
                FROM employee  
                WHERE e_salary < 100000) ;
```

## Subquery with Insert

```
INSERT INTO old_employee  
  SELECT * FROM employee  
  WHERE e_age IN (SELECT e_age  
    FROM employee where e_age>=30) ;
```

## Subquery with Update

```
UPDATE employee
    SET e_salary = e_salary * 1.25
    WHERE e_age IN (SELECT e_age FROM
old_employee
    WHERE e_age >= 30 );
```

## Subquery with Delete

```
DELETE FROM employee WHERE e_age IN  
(SELECT e_age FROM old_employee WHERE  
e_age >= 30 );
```

## Subquery with ALL

```
select e_name,e_salary from employee where  
e_salary < all      (select e_salary from  
employee where e_city = "Miami");
```

## Subquery with ANY

```
select * from employee where e_salary < any  
    (select e_salary from employee  
    where e_city = "New York");
```