# ROWNUM

#### **Using ROWNUM in Oracle**

ROWNUM is a pseudocolumn in Oracle that assigns a unique sequential number to each row returned by a query, starting from 1.

### **Key Properties of ROWNUM:**

- It is not a real column in the table, but rather generated at runtime.
- It is assigned before the ORDER BY clause is applied.
- It's commonly used to limit the number of rows returned.

### **EXAMPLE 1: GET THE FIRST 10 ROWS**

```
SELECT *
FROM employees
WHERE ROWNUM <= 10;
```

- This query returns the first 10 rows from the employees table.

#### **WARNING: ROWNUM = 10 DOESN'T WORK**

```
SELECT *
FROM employees
WHERE ROWNUM = 10;
```

This query will return no rows.

Why? Because Oracle assigns ROWNUM sequentially as rows are fetched — it never reaches ROWNUM = 10 unless it has already selected the first 9 rows, but the condition blocks that.

## SOLUTION 1: USE A SUBQUERY WITH ROWNUM

```
SELECT *
FROM (
SELECT e.*, ROWNUM AS rn
FROM employees e
)
WHERE rn = 5;
```

#### SOLUTION 2: USE OFFSET AND FETCH (ORACLE 12C+)

```
SELECT *
FROM employees
OFFSET 4 ROWS FETCH NEXT 1 ROW ONLY;
```