

ROWNUM

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

- It's **not stored** in the table.
- It is **calculated on the fly** during query execution.
- Generated **before** ORDER BY

➤ Rownum use to get first rows like

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

Retrieve first 10 rows

When use roenum to get row by has number return no rows

```
SELECT * FROM employees WHERE ROWNUM = 10; → will return no rows!
```

Because Oracle evaluates ROWNUM **sequentially** — it never reaches 10 unless previous rows are selected.

Solved by to ways

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

→ Must use as rn this return row

✚ Use Offset and Fetch

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

➔ OFFSET 4 ROWS Ignore the first 4 rows.

➔ FETCH NEXT 1 ROW ONLY Return to the next row immediately (fifth only).