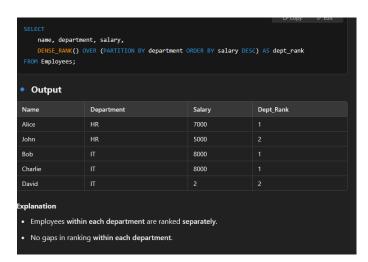
DENSE_RANK():

Window function in SQL that assigns a rank to rows within a partition, **without skipping ranks** when there are duplicates.

```
    Syntax
    sql
    DENSE_RANK() OVER (
        PARTITION BY column_name
        ORDER BY column_name ASC|DESC
        )
    PARTITION BY (Optional) – Divides the result into groups.
    ORDER BY – Defines the ranking order.
    Ranks are continuous – No gaps if values repeat.
```

EX:



Without the "partition by" the function gives the rank based on all data irrespective of the department.

Rank():

Window function that assigns a rank to each row within a partition, but skips ranks when there

are duplicate values.

```
Sql

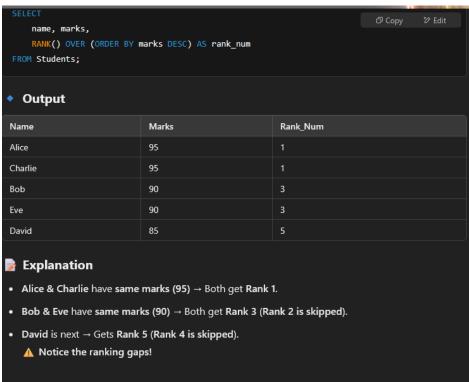
PARTITION BY column_name
ORDER BY column_name ASC|DESC

PARTITION BY (Optional) – Divides the data into groups (each group is ranked separately).

ORDER BY – Defines ranking order (ascending or descending).

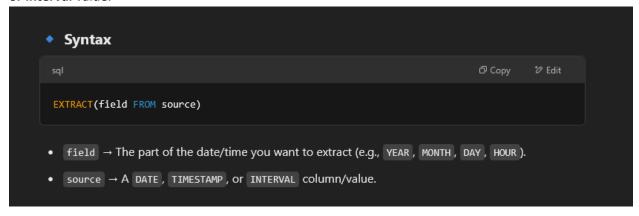
Ranks can have gaps – If two or more rows have the same value, they receive the same rank, and the next rank is skipped.
```

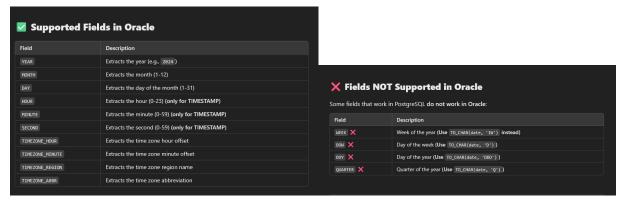
EX:

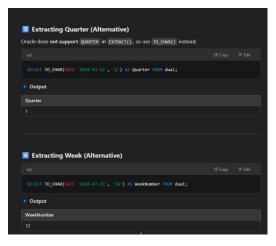


Extract():

retrieves specific date or time parts (like year, month, day, hour, etc.) from a date, timestamp, or interval value.











EX:

