ANALYTICAL FUNCTIONS



Analytical functions are used To reduce the response time

Increases the speed of Slow Running Queries

Mainly used DSS environment

DSS —Decision support Systems

Less users

Hugeeeee Data Volume

MIN LAG
MAX LEAD
AVG COUNT
SUM

RANK
DENSE RANK

WHAT IS RANK

COUNTRY	RATINGS	RANK
England	130	
New Zealand	117	2
Sri Lanka	117	2
South Africa	113	4
Australia	111	5

WHAT IS DENSE RANK

COUNTRY	<u>RATINGS</u>	RANK
England	130	
New Zealand	117	2
Sri Lanka	117	2
South Africa	113	3
Australia	111	4

Analytics

Ordered Array Semantics in SQL queries

Select deptno, ename, sal

Row_number() over (partition by dno order by sal desc)

from emb

	<u>ı Cırı</u>				
Deptno	Ename	Sal	King	5000	1
10			Clark	2450	2
20			Miller	1300	3
20					

Aggregate Example

Identify the ranks

```
SELECT deptno, ename, salary,
RANK() OVER (PARTITION BY
deptno ORDER BY salary) "rank"
FROM emp WHERE deptno = 30
```

DENSE RANK

Identify top 3 salaries in each department"?

```
select *
   from ( select deptno, ename, sal,
 dense_rank() over ( partition by deptno order by sal desc ) "dr"
from emp)
  where dr \le 3
                       order by deptno, sal desc
```