

```
create table employ(empid number(8), empname varchar2(15), depname varchar2(15), salary number(10), gender varchar2(10));
```

```
insert into employ values(101,'reema','testing',45000,'female');  
insert into employ values(102,'seema','testing',46000,'female');
```

```
insert into employ values(103,'tom','support',38000,'male');
```

```
insert into employ values(105,'eva','develop',49000,'female');
```

over() ---> mandatory  
partition by --> optional

lag()

```
select empname, depname,salary, lag(salary) over(order by salary) from employ;
```

```
select empname, depname,salary, lag(salary) over(order by salary) as prev_sal from employ;
```

```
select empname, depname,salary, lag(salary,1) over(order by salary) as prev_sal from employ;
```

```
select empname, depname,salary, lag(salary,1,0) over(order by salary) as prev_sal from employ;
```

```
select empname, depname,salary, lag(salary,2,0) over(order by salary) as prev_sal from employ;
```

lag(columnname,offset,default\_value) over(partition by columnname order by columnname[asc/desc])

```
select empname, depname,salary, lag(salary,1,0) over(partition by depname order by salary) as prev_sal from employ;
```

lead()

```
select empname, depname,salary, lead(salary) over(order by salary) from employ;
```

```
select empname, depname,salary, lead(salary) over(order by salary) as next_sal from employ;
```

```
first_value()
```

```
select empname, salary, first_value(empname) over(order by salary) from employ;
```

```
select empname, salary, first_value(empname) over(order by salary) as lowest_Sal_emp from employ;
```

```
select empname, salary, first_value(empname) over(partition by depname order by salary) as lowest_Sal_emp from employ;
```

last\_value()

```
select empname, salary, last_value(empname) over(order by salary ) as lowest_sal_emp from employ;
```

inserting clause--> which is default clause

(rows between unbounded preceding and current row)

```
select empname, salary, last_value(empname) over(order by salary rows between unbounded preceding and current row) as lowest_sal_emp from employ;
```

```
select empname, salary, last_value(empname) over(order by salary rows between unbounded preceding and unbounded following) as lowest_sal_emp from employ;
```

```
select empname, salary, last_value(empname) over(partition by depname order by salary rows between unbounded preceding and unbounded following) as lowest_sal_emp from employ;
```

first--> keep first --> returns lowest value from order list

last--> keep last --> returns highest value from order list

```
select empid, empname, depname, salary, min(salary) keep(dense_rank first order by salary) over(partition by depname) as lowest from employ;
```

```
select empid, empname, depname, salary, max(salary) keep(dense_rank last order by salary) over(partition by depname) as lowest from employ;
```

```
select empid, empname, depname, salary, min(salary) keep(dense_rank first order by salary) over(partition by depname) as lowest,max(salary) keep(dense_rank last order by salary) over(partition by depname) as highest from employ;
```

NTILE()

```
select empid, empname,salary, NTILE(2) over(order by salary) from employ;
```

```
select empid, empname,salary, NTILE(2) over(order by salary) "RANK" from employ;
```

```
select empid, empname,salary, NTILE(3) over(order by salary) "RANK" from employ;
```

```
select empid, empno, depno, salary, min(salary) keep(dense_rank first order by salary)
over(partition by depno) as lowest,max(salary) keep(dense_rank last order by salary)
over(partition by depno) as highest from employ;
```