```sql
#why do we need window functions?

#get me total salary that a company xyz pays?
select sum(salary) from employees; #691400.00

#get me total salary that a company xyz pays at every dept level?
select department_id,sum(salary)  as dept_wise_salary from employees
group by department_id; #90 --> 58000.00 100 --> 51600.00

#show me total salary across every employees?
select * from employees;

select *, sum(salary) from employees;

select *, (select sum(salary) from employees) as total_sal
from employees;

#window functions
select * ,
sum(salary) over() as total_sal
from employees;

#get me total salary that a company xyz pays at every dept level?
select department_id,sum(salary)  as dept_wise_salary from employees
group by department_id; #12 records

#get me total salary that a company xyz pays at every dept level displayed
#at every row?
select
    employee_id,
        salary,
    department_id,
        sum(salary)over() as tot_salary,
        sum(salary)over(partition by department_id) as dept_wise_salary
from employees;

# get me avg dept_wise_salary across every row sorted by first name

select * from employees
where department_id = 90;

select
    employee_id,
        first_name,
        salary,
        department_id,
        ROUND(avg(salary) OVER(partition by department_id
```

```sql
        order by first_name ),2) as avg_salary
from employees;

###row number
select
    employee_id,
        first_name,
        salary,
        department_id,
    row_number() OVER()  as rw_num
from employees;

# get me 13th highest salary from employees
select * from
(
select
    employee_id,first_name,salary,department_id,
        row_number() over(order by salary desc) as rw_numbr,
        rank() over(order by salary desc) as rnk,
        dense_rank() over(order by salary desc) as dense_rnk
from employees
)t
where t. dense_rnk = 13;

select
        employee_id,first_name,last_name,salary,department_id,hire_date,
        sum(salary) over(order by hire_date desc) as sal
from employees
where department_id = 90;


###DCS
select * from
(
select
    employee_id,
        salary,
    department_id,
        sum(salary)over(partition by department_id) as tot_salary,
        avg(salary)over(partition by department_id) as dept_wise_salary
from employees
)t where salary > t.dept_wise_salary;

#offset demo
select * from employees
offset 12 limit 1;
```