**SQL With Clause**

# With Clause [CTE / SQF]

**Common Table Expression / Sub Query Factoring**

**Whenever we are using the with clause, it should be before the select statement.**

**Syntax: with alias\_name (list\_of\_columns) as (query) select \* from table where clause.**

**The query inside the with clause is executed first and then the data is stored in temp memory / table and that can be referenced by alias.**

**The temp table is not actually temp table, its kindof and its scope is until execution of query.**

# Fetch employees who earn more than average salary of all employees.

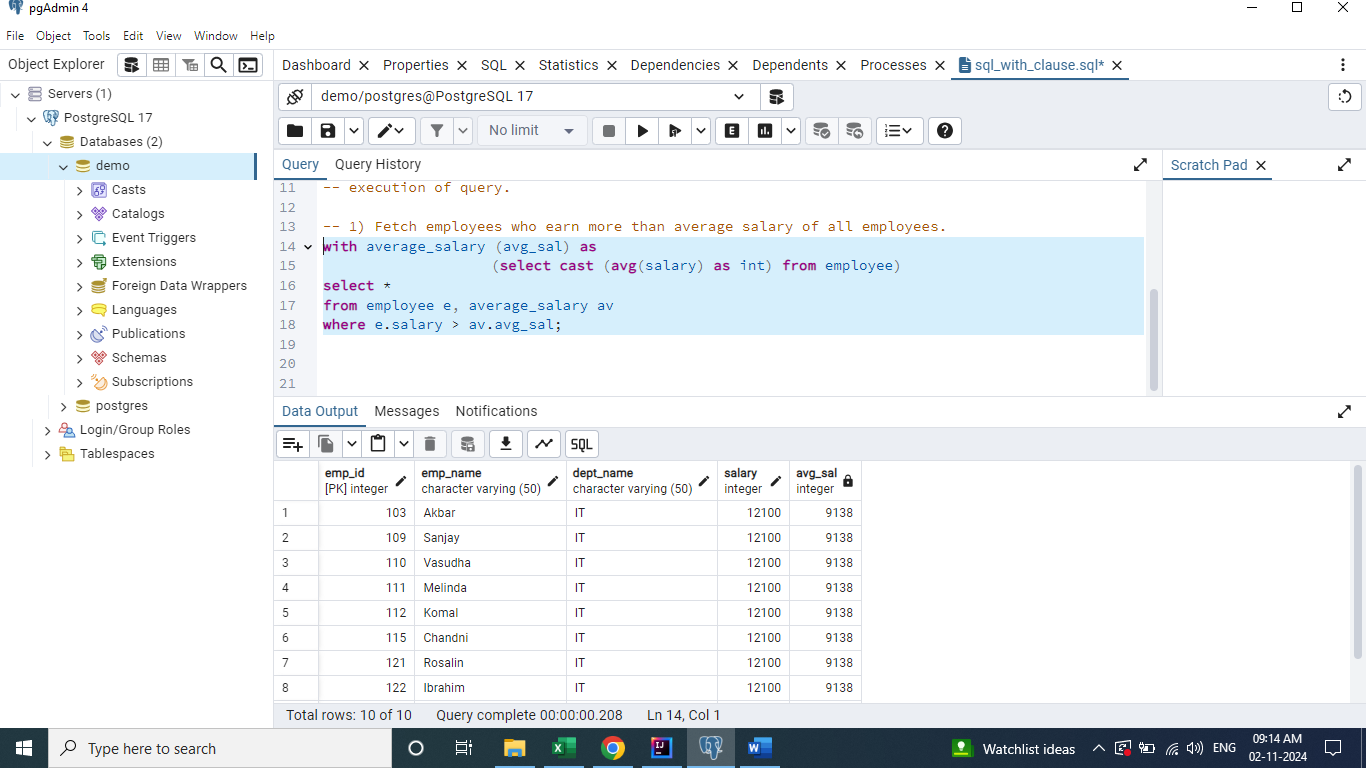
**with average\_salary (avg\_sal) as**

**(select cast (avg(salary) as int) from employee)**

**select \***

**from employee e, average\_salary av**

**where e.salary > av.avg\_sal;**



# Find stores who's sales where better than the average sales across all stores.

**with Total\_Sales (store\_id, total\_sales\_per\_store)**

**as (select s.store\_id, sum(s.price \* s.quantity) as total\_sales\_per\_store**

**from sales s**

**group by s.store\_id),**

**Avg\_Sales (avg\_sales\_for\_all\_stores)**

**as (select cast( avg(total\_sales\_per\_store) as int) as avg\_sales\_for\_all\_stores**

**from Total\_Sales)**

**select \***

**from Total\_Sales ts**

**join Avg\_Sales avs**

**on ts.total\_sales\_per\_store > avs.avg\_sales\_for\_all\_stores;**

