

1. Create PL/pgSQL function that takes a name as a parameter and returns a greeting message. (e.g. Hello, Dilyara!). Check how the function works.
2. Create PL/pgSQL function which calculates the area of a circle given its radius. It has a default radius of 1 if none is provided. Check how the function works.
3. Create PL/pgSQL function performs division and returns the result through an OUT parameter. It includes error handling to avoid division by zero. Check how the function works.
4. Now use your Sales database. First, delete all users with ids 80 and 97 from table products, as well as from other related tables.
5. Create a function `get_price_boundaries_by_paid` that results in a minimum and maximum price for paid or unpaid items. The function must take true or false as an argument. Check how the function works.
6. Modify the function `get_price_boundaries_by_paid` by setting the default argument to true. Check how the function works.
7. Create a function `get_sum_avg_prices_by_department` to get the sum and average price for each of the departments. The function takes no arguments and returns the entire list of departments. Use RETURNS TABLE. Check how the function works.
8. Modify the function `get_sum_avg_prices_by_department`. Now the function should take an argument (department name) and give information only on it. Check how the function works.
9. Delete all functions.