1er Ejercicio

```
CREATE OR REPLACE FUNCTION CalcularGastoAnual (Client_Id INT )
Returns Numeric AS $$
Declare
    total numeric;

    Begin
        Select SUM (c.customer_id)     INTO total
        From payment p
        inner join customer c
        on p.customer_id = c.customer_id
        where customer_id = Cliente_id

        Return total
    END;
$$ lenguage plpgsql;
```

2do Ejercicio

```sql
CREATE OR REPLACE FUNCTION CalcularGastoAnual (cliente id
                                                gasto minimo)
Lenguaje sql AS $$
Declare    total gasto = 0

  Begin

      Select Coalesce (SUM(amount), 0)
      Into total gasto
      From payment
      Where customer_id = cliente_id

      IF total_gasto > gasto minimo THEN
          UPDATE Customer
          active = true
          Where customer_id = cliente_id

      Notice 'Activado' cliente_id, total_gasto;

      ELSE

      Notice 'No Activado, cliente_id, total_gasto, gasto
                                                    minimo

      END IF
    END
$$
```

3er Ejercicio

```sql
create vista VIPs AS

select  c. customer_id
   json_ass(
    json_build object(
        'cliente', c.name || ' ' || c.lastname
        'peliculas', (
            select json_agg(f.title)
            from rental r
            inner join inventory i
            on r.inventory_id = i.inventory_id
            inner join film f
            on i.film_id = f.film_id
            where r.customer_id = c.customer_id
        )
    ) As vips

From customer c
Where (
        select count(*)
        from rental r
    where r.customer_id = c.customer_id
)
```