

```
CREATE TABLE IF NOT EXISTS categorias (  
    id SERIAL PRIMARY KEY,  
    nome VARCHAR(100),  
    total_despesas INTEGER DEFAULT 0,  
    teto_despesa INTEGER DEFAULT 500  
);
```

```
CREATE TABLE IF NOT EXISTS fatura (  
    id SERIAL PRIMARY KEY,  
    id_categoria INTEGER REFERENCES categorias(id),  
    valor NUMERIC  
);
```

```
CREATE OR REPLACE FUNCTION atualiza()  
RETURNS TRIGGER AS $$  
BEGIN  
    IF TG_OP = 'INSERT' THEN  
        UPDATE categorias  
        SET total_despesas = total_despesas + NEW.valor  
        WHERE categorias.id = NEW.id_categoria;  
    END IF;  
    RETURN NEW;  
END;  
$$ LANGUAGE plpgsql;
```

```
DROP TRIGGER IF EXISTS atualizacao_despesas ON fatura;
```

```
CREATE TRIGGER atualizacao_despesas  
AFTER INSERT ON fatura  
FOR EACH ROW  
EXECUTE FUNCTION atualiza();  
ALTER TABLE fatura  
ADD COLUMN nif_emitente VARCHAR(100),  
ADD COLUMN nif_adquirente VARCHAR(100),
```

```
ADD COLUMN pais VARCHAR(100),
ADD COLUMN data VARCHAR(100),
ADD COLUMN identificacao VARCHAR(100),
ADD COLUMN atcud VARCHAR(100);
ALTER TABLE categorias
ADD CONSTRAINT teto_despesa_check CHECK (total_despesas <= teto_despesa);
```