BC TEARDOWN 2 OF 5

Why your BC totals and reports crawl

A common Business Central problem, and how to fix it the right way in AL.

Swipe for the before and after

The pain

A total that took a second when you went live now takes minutes. Users stare at a spinner and blame Business Central.

Why it happens

Custom code loops through every record and loads every field, just to add up one number. It gets slower with every order you post.

BEFORE

Loop every row to add it up

```
SalesLine.SetRange("Document Type",
  SalesLine."Document Type"::Order);
if SalesLine.FindSet() then
  repeat
    Total += SalesLine.Amount;
  until SalesLine.Next() = 0;

// Reads every row and every column
```

AFTER

Let SQL do the math

```
SalesLine.SetRange("Document Type",
  SalesLine."Document Type"::Order);
SalesLine.CalcSums(Amount);
Total := SalesLine.Amount;

// When you must loop, load only
// the fields you actually use:
Item.SetLoadFields("No.", Description);
```

The result

One query returns the total instead of thousands of row reads. Partial records keep loops lean.

TIP

Pair CalcSums with a key that has SumIndexFields for the biggest wins.

Got a BC problem like this?

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You talk to the person writing the code.

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