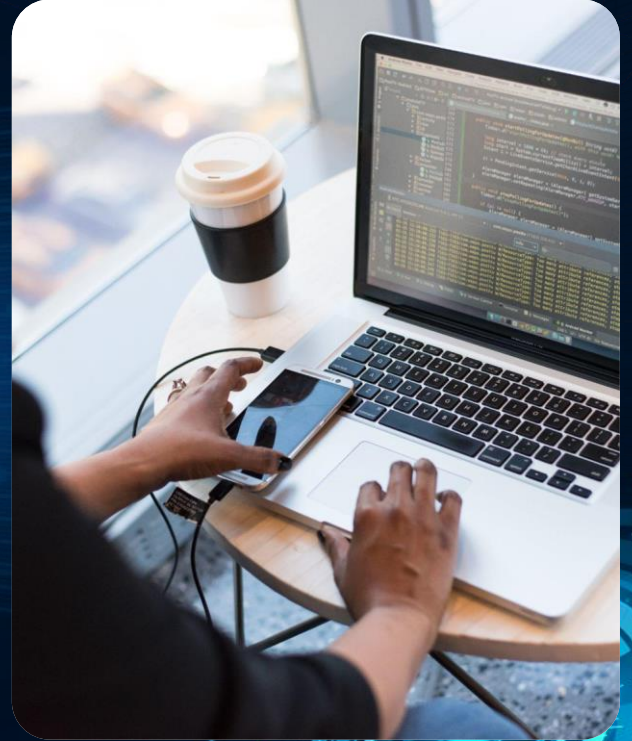# FLAG – USING CASE WHEN ⚑

- I often use a case when statement to return only 2 possible values - True/False, sometimes (1 / 0, or Yes/No)

- By flagging each row I can easily find rows which meet a condition, and when the flag is 1/0 I can then sum this column.

CASE STATEMENT

```
select
t1.ordernumber,
orderdate,
quantityordered,
productname,
productline,

case when quantityordered > 40 and  productline = 'Motorcycles' then
1 else 0 end as ordered_over_40_motorcycles

from classicmodels.orders t1
join classicmodels.orderdetails t2 on t1.ordernumber = t2.ordernumber
join classicmodels.products t3 on t2.productcode = t3.productcode
```

- This creates a flag which displays 1 when an order of motorcycles is more than 40

CASE STATEMENT

```
with main_cte as
(
select
t1.ordernumber,
orderdate,
quantityordered,
productname,
productline,

case when quantityordered > 40 and  productline = 'Motorcycles' then 1
else 0 end as ordered_over_40_motorcycles

from classicmodels.orders t1
join classicmodels.orderdetails t2 on t1.ordernumber = t2.ordernumber
join classicmodels.products t3 on t2.productcode = t3.productcode
)
select orderdate, sum(ordered_over_40_motorcycles) as over_40_bike_sale
from main_cte
group by orderdate
```

- We could use a CTE to sum this column for each day