**Query to Calculate the net\_invoice\_sales amount using the CTE's.**

**Net invoice sales = Gross price – Pre invoice deductions**

We need to join the following tables

* **fact\_sales\_monthly** (for sold\_quantity) ,
* **Dim\_product** (for product details, using product\_code),
* **fact\_gross\_price** (to calculate total gross price with sold qty, using product\_code and fiscal year),
* **pre invoice deductions** (for pre\_invoice\_discount\_pct, using customer\_code, fiscal\_year)

**Get the net\_invoice\_sales amount without using the CTE's**

SELECT

s.date,

s.customer\_code,

s.product\_code,

p.product, p.variant,

s.sold\_quantity,

g.gross\_price as gross\_price\_per\_item,

ROUND(s.sold\_quantity\*g.gross\_price,2) as gross\_price\_total,

pre.pre\_invoice\_discount\_pct

FROM fact\_sales\_monthly s

JOIN dim\_product p

ON s.product\_code=p.product\_code

JOIN fact\_gross\_price g

ON g.fiscal\_year=s.fiscal\_year

AND g.product\_code=s.product\_code

JOIN fact\_pre\_invoice\_deductions as pre

ON pre.customer\_code = s.customer\_code AND

pre.fiscal\_year=s.fiscal\_year

WHERE

s.fiscal\_year=2021

LIMIT 1500000;

**Get the net\_invoice\_sales amount using the CTE's**

WITH cte1 AS (

SELECT

s.date,

s.customer\_code,

s.product\_code,

p.product, p.variant,

s.sold\_quantity,

g.gross\_price as gross\_price\_per\_item,

ROUND(s.sold\_quantity\*g.gross\_price,2) as gross\_price\_total,

pre.pre\_invoice\_discount\_pct

FROM fact\_sales\_monthly s

JOIN dim\_product p

ON s.product\_code=p.product\_code

JOIN fact\_gross\_price g

ON g.fiscal\_year=s.fiscal\_year

AND g.product\_code=s.product\_code

JOIN fact\_pre\_invoice\_deductions as pre

ON pre.customer\_code = s.customer\_code AND

pre.fiscal\_year=s.fiscal\_year

WHERE

s.fiscal\_year=2021)

SELECT

\*,

(gross\_price\_total-pre\_invoice\_discount\_pct\*gross\_price\_total) as net\_invoice\_sales

FROM cte1

LIMIT 1500000;