Pharmacy Analytics (Part 1) - Easy Solution

Source - https://datalemur.com/questions/top-profitable-drugs

Running Notes

- Each drug can only be produced by 1 manufacturer

- Find TOP 3 profitable drugs

- How much profit they made

- highest profit to lowest profit → order by in desc order

```
SELECT * FROM pharmacy_sales;
```

Just to understand my tables so I know which columns I have to work on ... okay so I have a drug column and I need to find the TOP 3 profitable drugs

```
SELECT count(drug) FROM pharmacy_sales;
```

output is 183

```
SELECT count(DISTINCT(drug)) FROM pharmacy_sales;
```

output is also 183

So I know all my drugs are distinct and no repetitions

So now I need to find the top 3 most profitable drugs sold so I need `AIRTHMETIC` **calculations to calculate the profit and NO TIES (phew)**

$$TotalProfit = total sales - cogs$$

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`cogs` stands for Cost of Goods Sold which is the direct cost associated with producing the drug.

```
SELECT drug,total_sales-cogs AS total_profit FROM pharmacy_sale
```

So now as you can see in the above query I've done my calculations which were very easy literally just a subtraction to be done

```
SELECT drug,total_sales-cogs AS total_profit FROM pharmacy_sale
```

Now we want the top 3 highest profit making drugs so we need to arrange them in descending order that is what we do in the above query

And finally to get only TOP 3 we put a LIMIT 3!!

Drumrolls for the final query - accepted (Yay, this was an easy one)

```
SELECT drug,total_sales-cogs AS total_profit FROM pharmacy_sale
```

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