1. Calculate Total SalesAmount on Contoso Sales file.

   DAX:
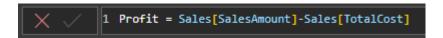
   ```
   1 Total SalesAmount = SUM(Sales[SalesAmount])
   ```

   Output:

   ₹ 8.34bn

   Total SalesAmount

2. Create Profit column using arithmetic operator by subtracting SalesAmount and Totalcost.

   DAX:

   ```
   1 Profit = Sales[SalesAmount]-Sales[TotalCost]
   ```

   Output:

TotalCost	SalesAmount	Profit
$3,214.4	$6,990	₹ 3,775.6
$3,214.4	$6,990	₹ 3,775.6
$3,214.4	$6,990	₹ 3,775.6
$3,214.4	$6,990	₹ 3,775.6
$3,214.4	$6,990	₹ 3,775.6
$3,214.4	$6,990	₹ 3,775.6
$3,214.4	$6,990	₹ 3,775.6

3. Calculate total profit value for product key 800.

   DAX:

   ```
   1 Total Profit = CALCULATE(SUM(Sales[Profit]),Sales[ProductKey]=800)
   ```

Output:

₹ 127.46K

Total Profit

4. Replace Contoso Ltd manufacturer name by Contoso Pvt Ltd using DAX function.

DAX:

```
1 Manufacturer updated = IF('Product'[Manufacturer] = "Contoso, Ltd", "Contoso, Pvt Ltd", 'Product'[Manufacturer])
```

Output:

Manufacturer ▼	Manufacturer updated
Contoso, Ltd	Contoso, Pvt Ltd
Contoso, Ltd	Contoso, Pvt Ltd
Contoso, Ltd	Contoso, Pvt Ltd
Contoso, Ltd	Contoso, Pvt Ltd
Contoso, Ltd	Contoso, Pvt Ltd
Contoso, Ltd	Contoso, Pvt Ltd
Contoso, Ltd	Contoso, Pvt Ltd
Contoso, Ltd	Contoso, Pvt Ltd
Contoso, Ltd	Contoso, Pvt Ltd

Note: It is not possible to directly edit a column data using DAX. A new column is created instead.

5. Create table with start date as mentioned in dataset and end date will be todays' date using DAX.

DAX:

```
1 Dates = CALENDAR(MIN('Calendar'[DateKey]),TODAY())
```

Output: A table with a single column with start date and end date as the following,

01-01-2005 00:00:00   20-07-2025 00:00:00
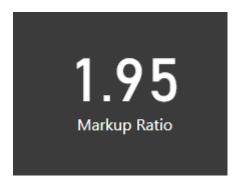
Start Date   End Date

6. Perform division operation on SalesAmount and total cost for product key 800.

DAX: As a measure.

```
1 Markup Ratio = DIVIDE(CALCULATE(SUM(Sales[SalesAmount]),Sales[ProductKey]=800),CALCULATE(SUM(Sales[TotalCost]),Sales[ProductKey]=800))
```

Output: As a measure.

```
1.95
Markup Ratio
```

DAX: As a calculated column.

```
1 Markup Ratio Column = IF(Sales[ProductKey]=800,DIVIDE(Sales[SalesAmount],Sales[TotalCost]),0)
```

Output: As a calculated column.

Markup Ratio Column
1.96
1.96
1.95
1.91
1.95
1.89
1.86
1.89
1.9

Aditya Mohanty

B-316