

## ✓ Prerequisites

### 1. Disable Auto Date/Time:

- File → Options → Current File → Data Load → *Disable* "Auto Date/Time".

### 2. Create a DATE Table:

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DataTable =

ADDCOLUMNS (

CALENDARAUTO(),

"Year", YEAR([Date]),

"Month", FORMAT([Date], "MMMM"),

"MonthNumber", MONTH([Date]),

"YearMonth", FORMAT([Date], "YYYY-MM")

)

Then relate this DataTable[Date] with Chocolate Sales[Date].

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## ■ Basic Level (1–5)

### 1. Total Sales Amount (All-Time)

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Total Sales = SUM('Chocolate Sales'[SalesAmount])

### 2. Total Sales for Current Year

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Sales This Year =

CALCULATE(

```
[Total Sales],  
YEAR('Chocolate Sales'[Date]) = YEAR(TODAY()  
)
```

### 3. Total Sales for Last Year

DAX

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Sales Last Year =

```
CALCULATE(  
    [Total Sales],  
    SAMEPERIODLASTYEAR('DateTable'[Date])  
)
```

### 4. Total Sales for Current Month

DAX

[Копировать](#)[Редактировать](#)

Sales This Month =

```
CALCULATE(  
    [Total Sales],  
    MONTH('DateTable'[Date]) = MONTH(TODAY()) &&  
    YEAR('DateTable'[Date]) = YEAR(TODAY()  
)
```

### 5. Total Sales for Current Quarter

DAX

[Копировать](#)[Редактировать](#)

Sales This Quarter =

```
CALCULATE(  
    [Total Sales],
```

```
QUARTER('DateTable'[Date]) = QUARTER(TODAY()) &&  
YEAR('DateTable'[Date]) = YEAR(TODAY())  
)
```

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## Intermediate (6–10)

### 6. YoY Sales Growth %

DAX

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YoY Growth % =

```
DIVIDE(  
    [Sales This Year] - [Sales Last Year],  
    [Sales Last Year]  
)
```

### 7. Sales from Last Month

DAX

[Копировать](#)[Редактировать](#)

Sales Last Month =

```
CALCULATE(  
    [Total Sales],  
    PREVIOUSMONTH('DateTable'[Date])  
)
```

### 8. Running Total of Sales

DAX

[Копировать](#)[Редактировать](#)

Running Total =

```
CALCULATE(  
    [Total Sales],  
    FILTER(ALL('DateTable'),  
        'DateTable'[Date] <= MAX('DateTable'[Date]))
```

```
[Total Sales],  
FILTER(  
    ALLSELECTED('DateTable'[Date]),  
    'DateTable'[Date] <= MAX('DateTable'[Date])  
)  
)
```

### 9. Sales Last 3 Months

DAX

[Копировать](#)[Редактировать](#)

Sales Last 3 Months =

```
CALCULATE(  
    [Total Sales],  
    DATESINPERIOD('DateTable'[Date], MAX('DateTable'[Date]), -3, MONTH)  
)
```

### 10. Month with Highest Sales in Last 12 Months

DAX

[Копировать](#)[Редактировать](#)

Highest Sales Month =

```
CALCULATE(  
    MAXX(  
        VALUES('DateTable'[YearMonth]),  
        CALCULATE([Total Sales])  
    ),  
    DATESINPERIOD('DateTable'[Date], MAX('DateTable'[Date]), -12, MONTH)  
)
```

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## Advanced (11–15)

### 11. Compare Q1 Sales Across Years

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Q1 Sales by Year =

```
CALCULATE(  
    [Total Sales],  
    FILTER(  
        'DateTable',  
        'DateTable'[MonthNumber] IN {1, 2, 3}  
    )  
)
```

### 12. YoY Difference Only for December

DAX

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YoY December Diff =

```
CALCULATE(  
    [Sales This Year] - [Sales Last Year],  
    'DateTable'[MonthNumber] = 12  
)
```

### 13. Last 12 Months Total

DAX

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Sales Last 12 Months =

```
CALCULATE(  
    [Total Sales],
```

```
    DATESINPERIOD('DateTable'[Date], MAX('DateTable'[Date]), -12, MONTH)
)
```

#### 14. Sales Difference: Current vs Previous Quarter

DAX

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Sales Prev Quarter =

```
CALCULATE(
    [Total Sales],
    PREVIOUSQUARTER('DateTable'[Date])
)
```

Quarter Difference =

[Sales This Quarter] - [Sales Prev Quarter]

#### 15. Flag Months Where Sales > 110% of Last Year

DAX

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Sales YoY Flag =

VAR ThisMonth = [Total Sales]

VAR LastYearMonth =

```
    CALCULATE(
        [Total Sales],
        SAMEPERIODLASTYEAR('DateTable'[Date])
    )
```

RETURN

```
    IF(ThisMonth > 1.1 * LastYearMonth, "↑ 110%+", BLANK())
```