

Data Modelling

Comp4104

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Contents

[Part 1 Excel Spreadsheet 2](#_Toc68721104)

# Part 1 Excel Spreadsheet

I used numerous formulas in the excel calculations. This was to ensure that the calculations could be performed from row 13 to row 492. The first column to be calculated was the “Total Base Price”. In (Fig 1.01) you can see the formula which was used. The Match Function read the Pricing Matrix and compared it with the weight and type of paper, this was then multiplied by the quantity and divided by 1000 as the matrix stated that the prices were per 1000 sheets.

(Fig 1.01)



I used the If function on excel to calculate the charge of colour and folding. This was done by reading the text and applying the calculation that was given to us in the excel spreadsheet. (Formula can be seen in Fig 1.02)

(Fig 1.02)





The “Total Sales” were a simple sum calculation which added my base price, colour charge and folding charge to create the column “Total Sales”. (Formula can be seen in Fig 1.03)

(Fig 1.03)



The “Total Expenses” was calculated by adding monthly expenses with depreciation.

The net profit was calculated by taking “Total Expenses” away from “Total Sales”. (Formula can be seen in Fig 1.04)

(Fig 1.04)



The Cumulative profit was generated by tallying up the net profit after every transaction. (Formula can be seen in Fig 1.05)

(Fig 1.05)



## Conditional FormATTING

I applied numerous conditional formatting in spreadsheet. I rounded my figures to the nearest whole number. I placed the currency sign £ where it was needed. Every loss in my spreadsheet was recorded in red text. I did this by using customized cells that if a negative number is present then the cell text would turn to red.

<https://www.guru99.com/database-normalization.html>

<https://www.softwaretestinghelp.com/database-normalization-tutorial/>

<https://www.gliffy.com/>