# TIME\_SHEET

# **Database Creation and Data Visualization**

#### **Abstract**

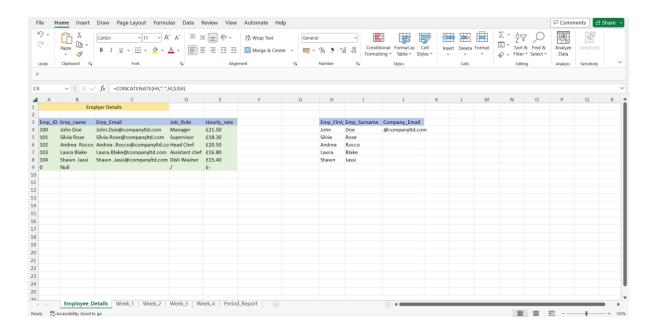
This Project it is to create a period sheet for a small company to keep track to the employee salary in a weekly basis with a period of 4 weeks.

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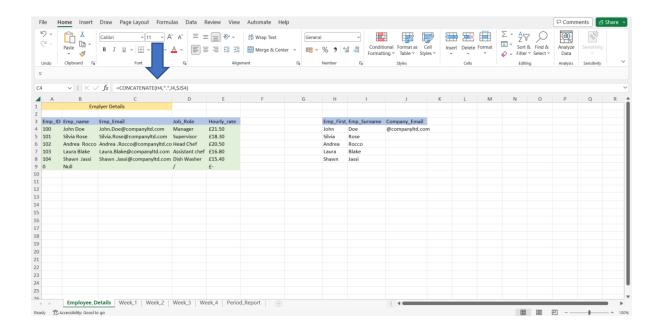
## 1 Creation of Employer details

In the employee sheet we have the detail of the worker with their name, surname, work email, Job role and their current hourly rate.



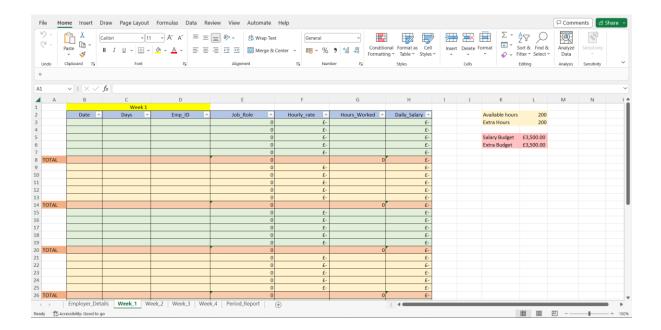
#### 1.2 Concatenate

To create the email the function which has been used is **Concatenate.** 



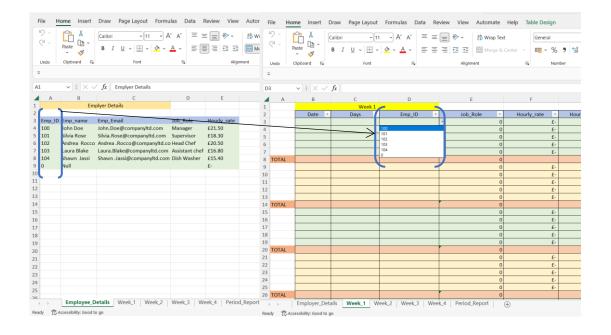
### 2. Timesheet creation

A sheet "Week\_1" with relevant functions has been created.



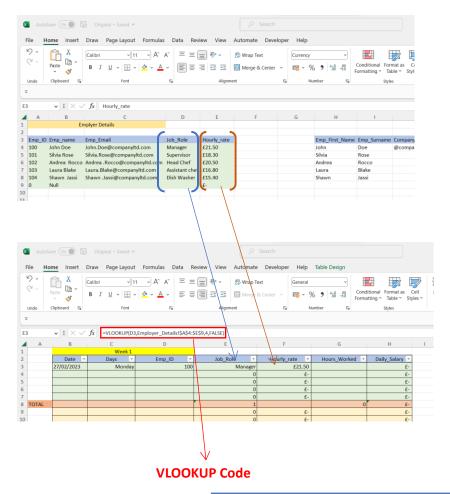
#### 2.1 Dropdown List

The column of Emp\_ID is a drop-down list which connect to Employee\_details sheet with the relevant column.



#### 2.3 VLOOKUP

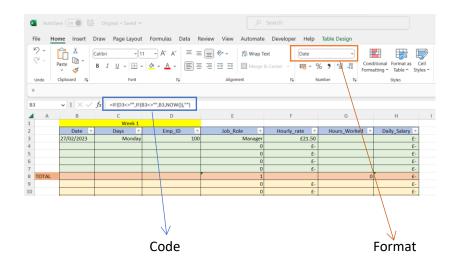
The column of Job\_Role and Hourly\_Rate have been connected to Emp\_ID with **VLOOKUP** which were connected to the Emplyee\_Details sheet with their relevant information's, in this way one only information to input was the employee ID with the drop down menu and the Job\_Role and Hourly\_rate of relevant individual would appear automatically.

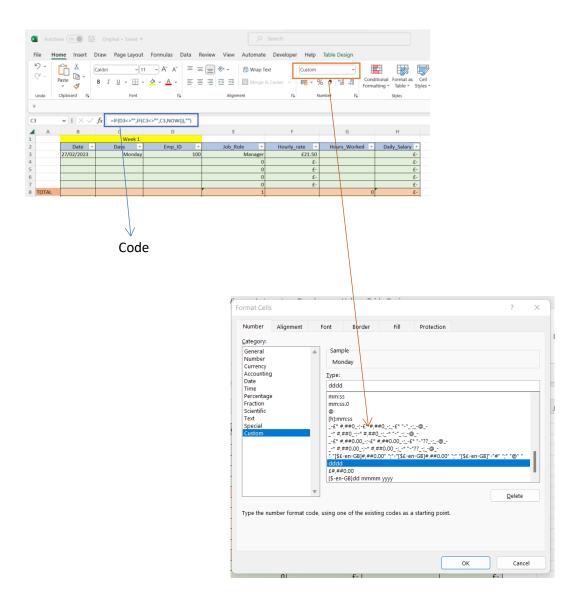


Code for Hourly\_rate VLOOKUP = VLOOKUP(D3, Employer\_Details!\$A\$4:\$E\$9,5,FALSE)

#### 2.4 IF & Date

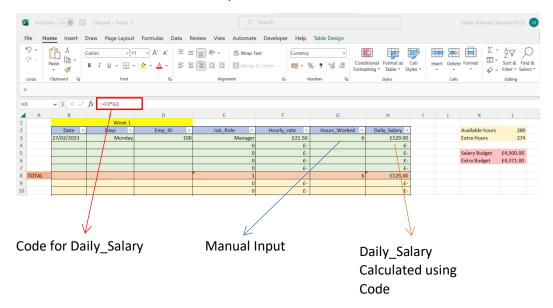
For the dates to appear automatically a combination of "IF" & "NOW" functions has been used.





#### 2.5 Multiplication

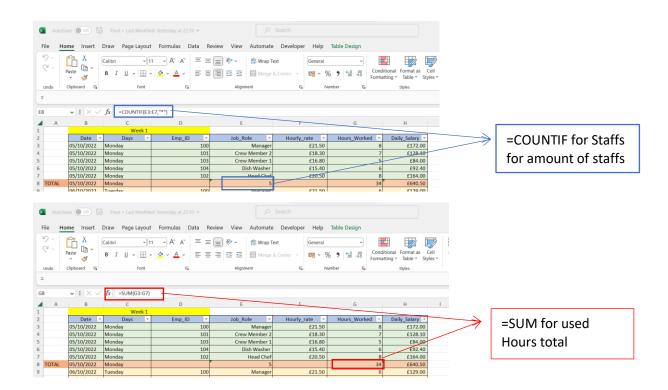
The only input to enter manually in the full Time\_Sheet is the hours worked by Employer and all the data will be calculated automatically.

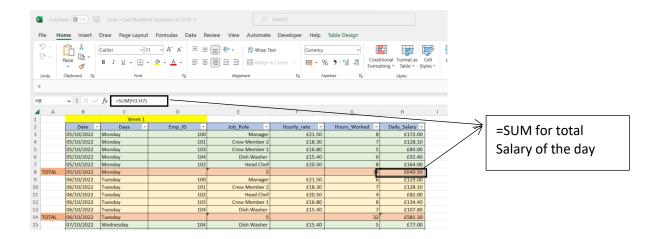


[For better visual representation a Time\_Sheet with dummy Data has been created.]

#### 2.7 SUM & COUNTIF

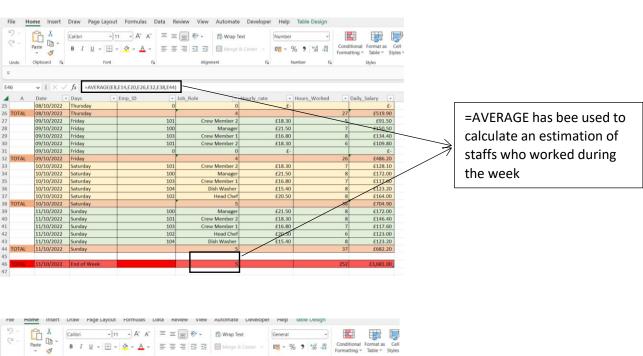
The following Functions has been used to create the end of the day:

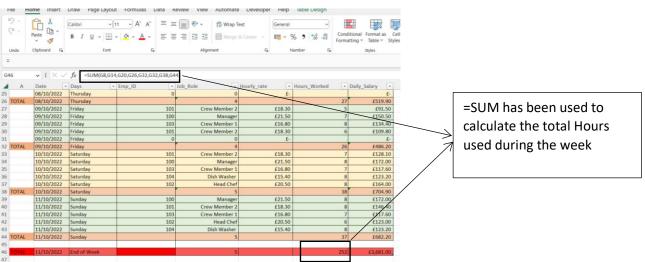


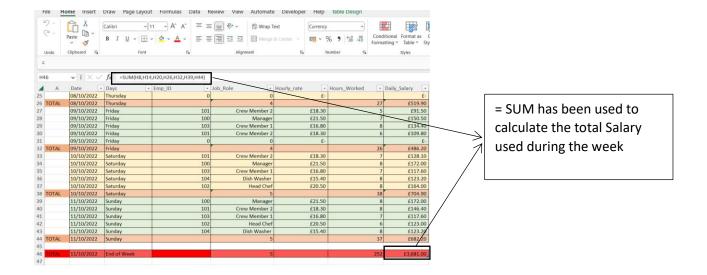


#### 2.8 Average

The following Functions has been used to create the end of the Week:



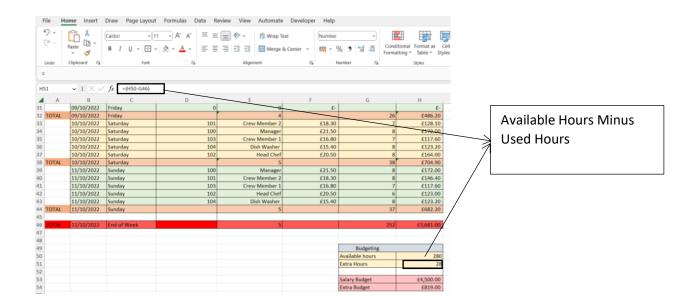


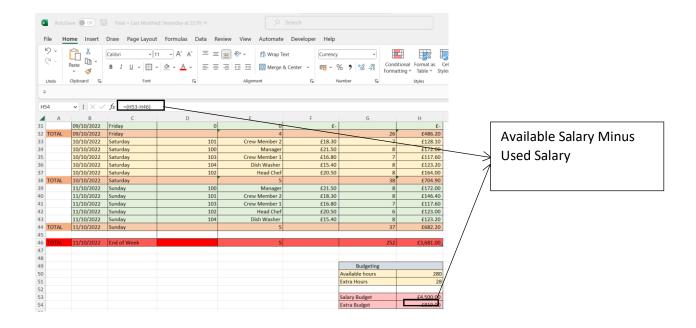


# 3 Budgeting

#### 3.1 Substruction

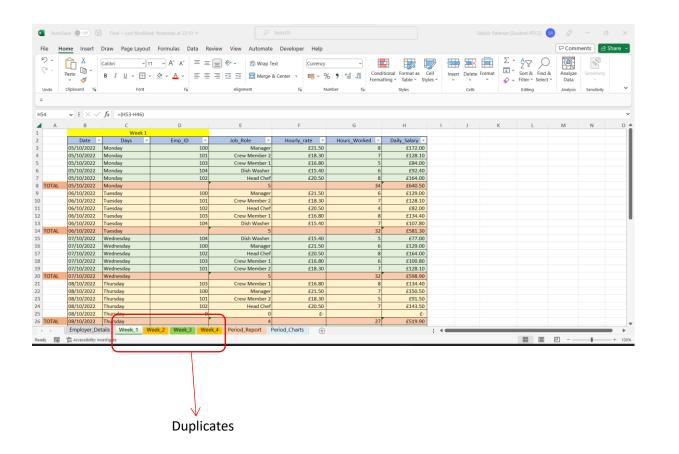
A Budgeting table has been created to keep track of Hours & Salary





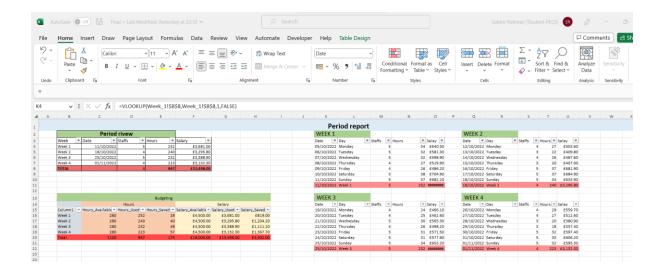
## 5 Creation of New Sheets

Duplicate of the Week\_1 has been created to create Week\_2, Week\_3 & Week\_4



# 6. Period Report

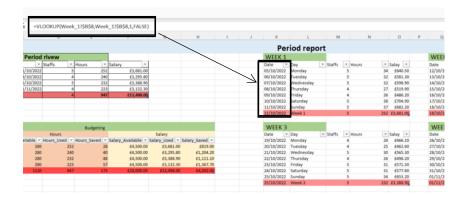
By the end of the 4 weeks a Period\_Report Sheet has been created which has been connected the weekly sheets to retrieve and calculate the interested Data need to create charts.

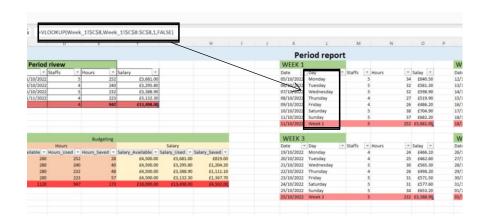


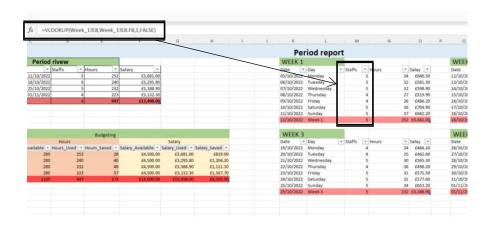
#### 6.1 Various Functions for Tables

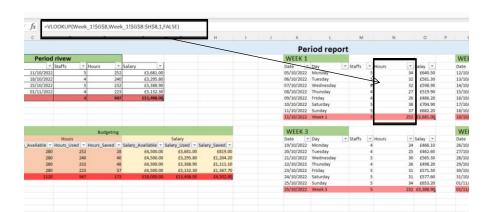
Various functions has been used to create the Period\_Report sheet, mostly used VLOOKUP to report the right data from the Weekly Sheet.

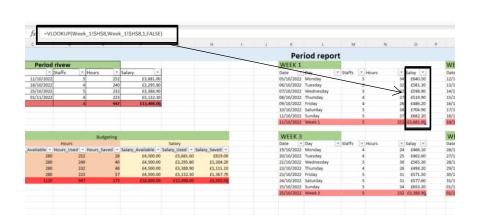
As follow the different Code for the tables:





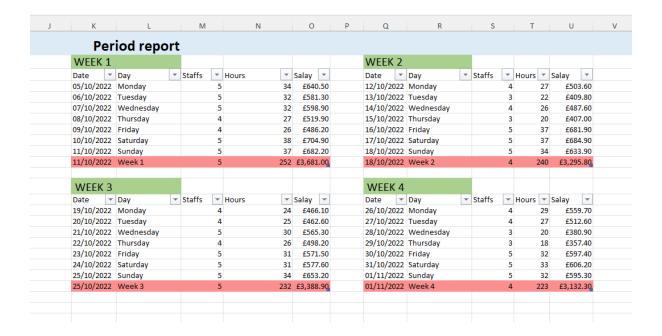






#### 6.2 Weekly Tables

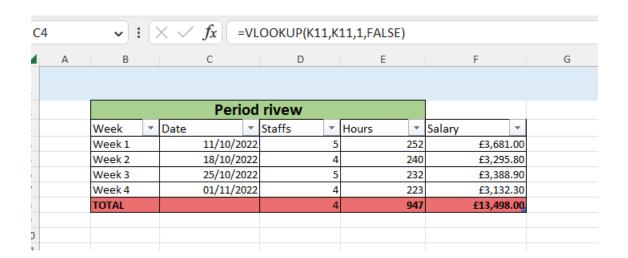
The same procedures has been done for the tables of WEEK 1, WEEK 2, WEEK 3 & WEEK 4.



#### 6.3 Period Review

The Period Review table has been created with VLOOKUP & Various calculations to retrieve the relevant data.

(Download and check the full Excel file to check full codes)



## 6.4 Budgeting Table

The Budgeting table has been created with VLOOKUP and various calculations to retrieve the relevant data.

(Download and check the full Excel file to check full codes)

Budgeting							
	Hours			Salary			
Column1 🔻	Hours_Available ▼	Hours_Used ▼	Hours_Saved ▼	Salary_Available 🔻	Salary_Used 🔻 S	alary_Saved 🔻	
Week 1	280	252	28	£4,500.00	£3,681.00	£819.00	
Week 2	280	240	40	£4,500.00	£3,295.80	£1,204.20	
Week 3	280	232	48	£4,500.00	£3,388.90	£1,111.10	
Week 4	280	223	57	£4,500.00	£3,132.30	£1,367.70	
Total	1120	947	173	£18,000.00	£13,498.00	£4,502.00	

## 7 Dashboard

A Period\_Chart sheet has been created with relevant charts to analyse the period.

