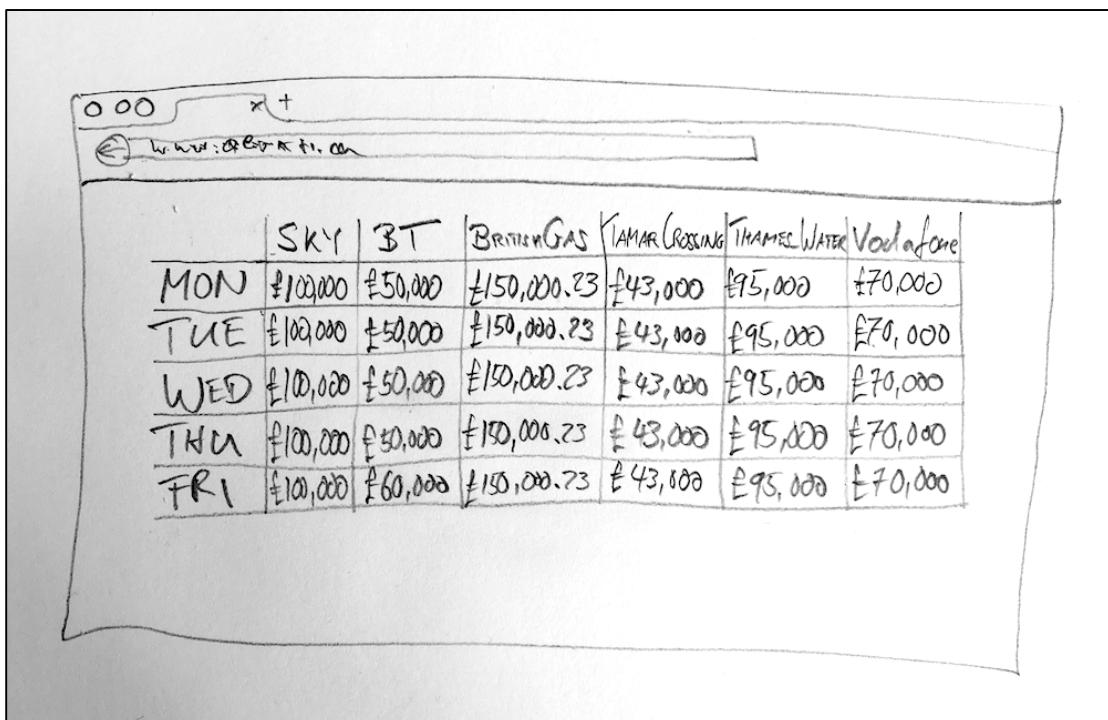# Payment Forecast Challenge

As a payments business, we are processing a lot of debits which need to be scheduled in advance. The payments will then be collected from the payer and paid to the merchant.

Using the data we provided in a csv file, your challenge is to write code to display a summary view of how much money will be collected on each day for each merchant. Please then send us the code and anything else necessary for us to run it.

The result should be something that can be rendered in a browser like this:

For security reasons and for data integrity a hash value has been created and appended to each record. The hash has been constructed using SHA256 and concatenating the following variables left to right *without* delimiters or spaces:

```
MerchantPubKey PayerPubKey DebitPermissionId DueEpoc Amount
```

Please note: Any payments due after 4pm will be collected on the following day, so please make sure they are counted for the following day.

To complete the challenge please:
- Use Java (including any library you deem fit for purpose)
- Parse and load the data into a data structure of your choice
- Validate the SHA256 hashes
- Create a file with all parsing exceptions
- Create the above summary view rendered in a browser
- Create a runtime log file showing the time stamps of some key steps in your code
- Send us a zip file including your code and anything else necessary for us to run it to jobs@cftgroup.co.uk.