SQL DATABASE: (current time is 6 on 2 3 2018)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2 1 2018 | 2 2 2018 | 2 3 2018 | 2 4 2018 | 2 5 2018 | 2 6 2018 | 2 7 2018 … |
| 1 | Program checks the row title (1) |  |  |  |  |  |  |
| 2 | 1 does not equal 6 |  |  |  |  |  |  |
| 3 | \/ |  |  |  |  |  |  |
| 4 | \/ |  |  |  |  |  |  |
| 5 | \/ |  |  |  |  |  |  |
| 6 | X  Stop here |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |

Notes:

When first initializing program, read system time to get current date.

Database should start on current date until the end of the month.

When the main calendar is updated, it will read every cell in the database until it reaches the current date and hour. Every hour before and including the current hour is flagged as ended in the main calendar. As the program counts up to the current hour, it will also read if there’s a ‘F’ and count each found. ‘F’ are used to indicate the hours the user selected as free time. Delete ‘F’ as you reach them.

Once the program reaches the current hour cell, the ‘F’ count is used to subtract the user’s project total hours.

If program reaches end of 24 day, then delete column and move onto next. (Possibly add a new column for a new day after every deletion?)

MENU FOR USER’S HOURS FREE:

Inputting nothing will default to 0 hours free

From number must be lower than to number

Number cannot be over 24 or under 0

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | MON | TUES | WED | THUR | FRI | SAT | SUN |
| Hours Free | From:   |  | | --- | | 5 |   To:   |  | | --- | | 9 | | From:   |  | | --- | | 0 |   To:   |  | | --- | | 0 | | From:   |  | | --- | | 12 |   To:   |  | | --- | | 15 | | From:   |  | | --- | |  |   To:   |  | | --- | |  | | From:   |  | | --- | | 20 |   To:   |  | | --- | | 22 | | From:   |  | | --- | |  |   To:   |  | | --- | |  | | From:   |  | | --- | |  |   To:   |  | | --- | |  | |

Hitting “Okay” will update database above (current time is 8 AM on 2 3 2018)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2 3 2018 | 2 4 2018 | 2 5 2018 | 2 6 2018 | 2 7 2018 | 2 8 2018 | 2 9 2018 … |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  | F | F | F | F | F | F |
| 6 |  | F | F | F | F | F | F |
| 7 |  | F | F | F | F | F | F |
| 8 |  | F | F | F | F | F | F |
| 9 | F | F | F | F | F | F | F |
| 10 |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |
| 12 | F | F | F | F | F | F | F |
| 13 | F | F | F | F | F | F | F |
| 14 | F | F | F | F | F | F | F |
| 15 | F | F | F | F | F | F | F |
| 16 |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |
| 20 | F | F | F | F | F | F | F |
| 21 | F | F | F | F | F | F | F |
| 22 | F | F | F | F | F | F | F |
| 23 |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |

MAIN CALENDAR:

|  |
| --- |
| No Projects Created |

|  |
| --- |
| Auto-Schedule |

Current time is: 12:22 AM, February 3, 2018

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2 3 2018 | 2 4 2018 | 2 5 2018 | 2 6 2018 | 2 7 2018 | 2 8 2018 | 2 9 2018 … |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  | Open | Open | Open | Open | Open | Open |
| 6 |  | Open | Open | Open | Open | Open | Open |
| 7 |  | Open | Open | Open | Open | Open | Open |
| 8 |  | Open | Open | Open | Open | Open | Open |
| 9 |  | Open | Open | Open | Open | Open | Open |
| 10 |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |
| 12 | Current | Open | Open | Open | Open | Open | Open |
| 13 | Open | Open | Open | Open | Open | Open | Open |
| 14 | Open | Open | Open | Open | Open | Open | Open |
| 15 | Open | Open | Open | Open | Open | Open | Open |
| 16 |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |
| 20 | Open | Open | Open | Open | Open | Open | Open |
| 21 | Open | Open | Open | Open | Open | Open | Open |
| 22 | Open | Open | Open | Open | Open | Open | Open |
| 23 |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |

Upon hitting “Auto-Schedule” on main calendar:

1: User will name project and input estimated hours to complete project. Also put end date.

2: Will read from database above.

3: Have counter = estimated hours.

4: Counter counts down each time it encounters another hour.

Updates main calendar with name of project for each hour passed.

Error Check: If counter doesn’t reach 0 before end date, then error.

|  |
| --- |
| Project 1: Programming  Hours Left: 12 |

|  |
| --- |
| Auto-Schedule |

Current time is: 2:34 PM, February 1, 2018

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2 3 2018 | 2 4 2018 | 2 5 2018 | 2 6 2018 | 2 7 2018 | 2 8 2018 | 2 9 2018 … |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  | Programming | Open | Open | Open | Open | Open |
| 6 |  | Programming | Open | Open | Open | Open | Open |
| 7 |  | Programming | Open | Open | Open | Open | Open |
| 8 |  | Programming | Open | Open | Open | Open | Open |
| 9 |  | Programming | Open | Open | Open | Open | Open |
| 10 |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |
| 12 |  | Programming | Open | Open | Open | Open | Open |
| 13 | Current | Open | Open | Open | Open | Open | Open |
| 14 | Programming | Open | Open | Open | Open | Open | Open |
| 15 | Programming | Open | Open | Open | Open | Open | Open |
| 16 |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |
| 20 | Programming | Open | Open | Open | Open | Open | Open |
| 21 | Programming | Open | Open | Open | Open | Open | Open |
| 22 | Programming | Open | Open | Open | Open | Open | Open |
| 23 |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |