



Sunrise & Sunset Automation






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Objective

Automating the extraction of the Sunrise and Sunset data from a website and alerting the user if the daylength exceeds a certain number

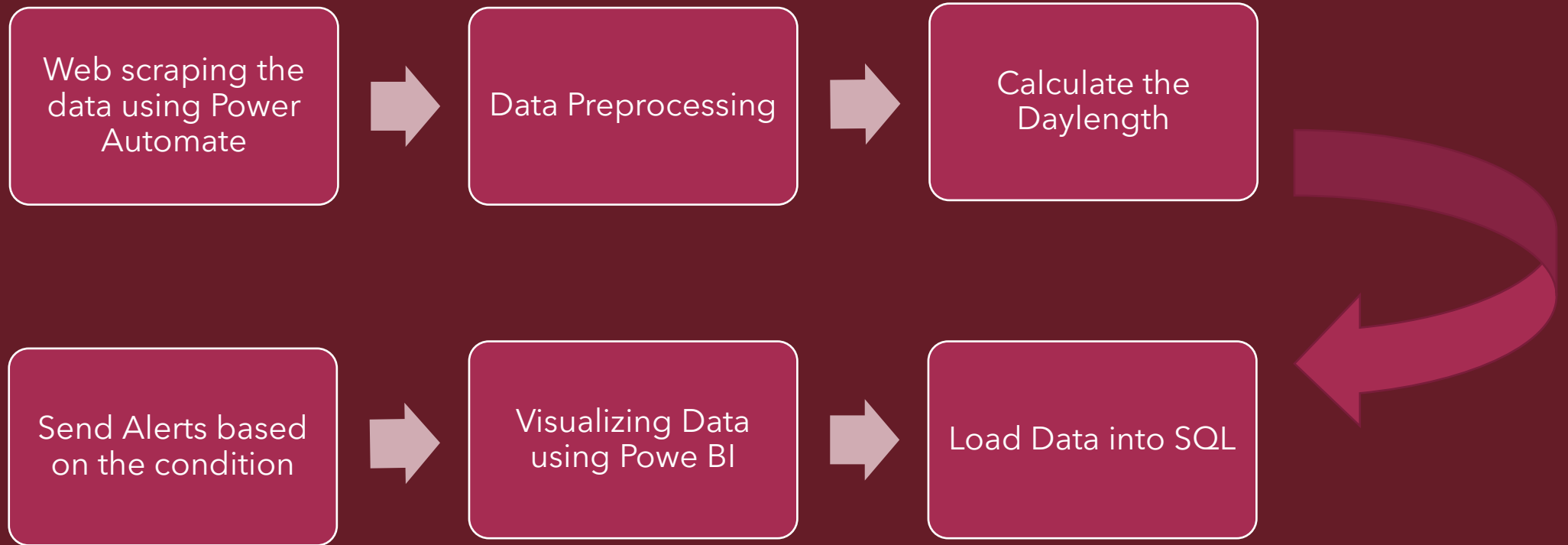


Tools Used

- Power Automate Desktop 
- Excel 
- Microsoft SQL Server Studio 2019 
- Google Chrome 
- Power BI 



Pipeline



Subflows

Main

ExcelOperations

InserttoDB

1

Start of autogenerated actions using the recorder

2

Launch new Chrome

Launch Chrome, navigate to 'https://www.timeanddate.com/astronomy/usa' and store the instance into Browser

3

Extract data from web page

Extract data from specific fields in web pages, create a virtual table and store it in DataFromWebPage

4

Close web browser

Close web browser Browser

5

End of autogenerated actions using the recorder

6

Terminate process

Terminate all processes with name 'EXCEL'

7

Launch Excel

Launch Excel and open document 'C:\Users\dudey\OneDrive\Desktop\sunriseandset.xlsx' using an existing Excel process and store it into Excel instance ExcellInstance

8

Get current date and time

Retrieve the current datetime of time zone 'America/New_York' and store it into CurrentDateTime

9

Convert datetime to text

Convert datetime CurrentDateTime to text using format 'dd MMM yyyy HH mm ss tt' and store it into FormattedDateTime

10

Run subflow

ExcelOperations

Power Automate Code

Home

World Clock

Time Zones

Calendar

Weather

Sun & Moon

Timers

Calculators

Apps & API

Free Fun

Moon: 87.9%

Waxing Gibbous

Country: United States

Long Name: United States of America


Abbreviations: US, USA

Capital: Washington DC

Time Zones: 7 (Main Country)

Total Time Zones: 12 (with dependencies)

Dial Code: +1



Advertising

Segment: Create A Free Account

Today's top brands use Segment to collect, clean, and activate their customer data.

Twilio Segment

Open

↑ Sunrise and ↓ Sunset in United States (79 Locations)

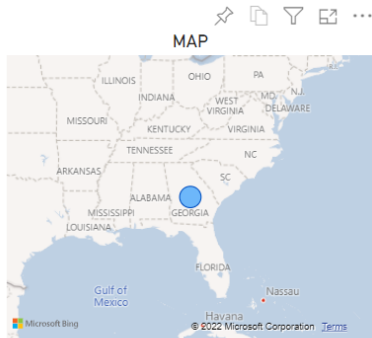
Adak (AK)	↑ 8:56 am	↓ 8:11 pm	Harrisburg (PA)	↑ 7:09 am	↓ 6:41 pm	Philadelphia (PA)	↑ 7:01 am	↓ 6:34 pm
Albany (NY)	↑ 6:57 am	↓ 6:27 pm	Hartford (CT)	↑ 6:53 am	↓ 6:23 pm	Phoenix (AZ)	↑ 6:26 am	↓ 6:05 pm
Albuquerque (NM)	↑ 7:05 am	↓ 6:43 pm	Helena (MT)	↑ 7:33 am	↓ 6:57 pm	Pierre (SD)	↑ 7:45 am	↓ 7:12 pm
Ames (IA)	↑ 7:17 am	↓ 6:47 pm	Honolulu (HI)	↑ 6:24 am	↓ 6:14 pm	Portland (OR)	↑ 7:15 am	↓ 6:41 pm
Anchorage (AK)	↑ 8:19 am	↓ 7:14 pm	Houston (TX)	↑ 7:17 am	↓ 7:00 pm	Raleigh (NC)	↑ 7:13 am	↓ 6:51 pm
Annapolis (MD)	↑ 7:06 am	↓ 6:40 pm	Indianapolis (IN)	↑ 7:45 am	↓ 7:18 pm	Richmond (VA)	↑ 7:09 am	↓ 6:45 pm
Atlanta (GA)	↑ 7:35 am	↓ 7:15 pm	Jackson (MS)	↑ 6:58 am	↓ 6:38 pm	Sacramento (CA)	↑ 7:06 am	↓ 6:40 pm
Augusta (ME)	↑ 6:42 am	↓ 6:10 pm	Jefferson City (MO)	↑ 7:09 am	↓ 6:43 pm	Salem (OR)	↑ 7:16 am	↓ 6:43 pm
Austin (TX)	↑ 7:27 am	↓ 7:10 pm	Juneau (AK)	↑ 7:13 am	↓ 6:16 pm	Salt Lake City (UT)	↑ 7:29 am	↓ 7:01 pm
Baltimore (MD)	↑ 7:07 am	↓ 6:41 pm	Kansas City (MO)	↑ 7:19 am	↓ 6:52 pm	San Diego (CA)	↑ 6:46 am	↓ 6:26 pm
Baton Rouge (LA)	↑ 7:01 am	↓ 6:43 pm	Lansing (MI)	↑ 7:41 am	↓ 7:10 pm	San Francisco (CA)	↑ 7:09 am	↓ 6:44 pm
Billings (MT)	↑ 7:18 am	↓ 6:44 pm	Las Vegas (NV)	↑ 6:40 am	↓ 6:16 pm	San Jose (CA)	↑ 7:07 am	↓ 6:43 pm
Bismarck (ND)	↑ 7:48 am	↓ 7:12 pm	Lincoln (NE)	↑ 7:28 am	↓ 7:00 pm	Santa Fe (NM)	↑ 7:02 am	↓ 6:40 pm
Boise (ID)	↑ 7:48 am	↓ 7:16 pm	Little Rock (AR)	↑ 7:07 am	↓ 6:46 pm	Seattle (WA)	↑ 7:15 am	↓ 6:38 pm
Boston (MA)	↑ 6:46 am	↓ 6:17 pm	Los Angeles (CA)	↑ 6:51 am	↓ 6:30 pm	Sioux Falls (SD)	↑ 7:30 am	↓ 6:58 pm
Carson City (NV)	↑ 7:00 am	↓ 6:33 pm	Louisville (KY)	↑ 7:43 am	↓ 7:18 pm	Springfield (IL)	↑ 6:59 am	↓ 6:32 pm
Charleston (WV)	↑ 7:26 am	↓ 7:01 pm	Madison (WI)	↑ 7:00 am	↓ 6:29 pm	St. Joseph (MO)	↑ 7:20 am	↓ 6:53 pm
Chicago (IL)	↑ 6:52 am	↓ 6:23 pm	Miami (FL)	↑ 7:15 am	↓ 7:02 pm	St. Louis (MO)	↑ 7:01 am	↓ 6:35 pm
Columbia (SC)	↑ 7:22 am	↓ 7:01 pm	Milwaukee (WI)	↑ 6:54 am	↓ 6:23 pm	St. Paul (MN)	↑ 7:17 am	↓ 6:43 pm
Columbia (MO)	↑ 7:10 am	↓ 6:44 pm	Minneapolis (MN)	↑ 7:17 am	↓ 6:44 pm	Tallahassee (FL)	↑ 7:33 am	↓ 7:16 pm
Concord (NH)	↑ 6:49 am	↓ 6:18 pm	Montgomery (AL)	↑ 6:42 am	↓ 6:23 pm	Topeka (KS)	↑ 7:23 am	↓ 6:57 pm
Dallas (TX)	↑ 7:24 am	↓ 7:05 pm	Montpelier (VT)	↑ 6:54 am	↓ 6:21 pm	Trenton (NJ)	↑ 7:00 am	↓ 6:33 pm
Denver (CO)	↑ 7:01 am	↓ 6:34 pm	Nashville (TN)	↑ 6:46 am	↓ 6:23 pm	Unalaska (AK)	↑ 9:17 am	↓ 8:29 pm
Des Moines (IA)	↑ 7:16 am	↓ 6:47 pm	New Orleans (LA)	↑ 6:56 am	↓ 6:39 pm	Washington DC (DC)	↑ 7:08 am	↓ 6:42 pm
Detroit (MI)	↑ 7:34 am	↓ 7:04 pm	New York (NY)	↑ 6:57 am	↓ 6:29 pm	York (PA)	↑ 7:08 am	↓ 6:41 pm
Fairbanks (AK)	↑ 8:16 am	↓ 6:59 pm	Oklahoma City (OK)	↑ 7:29 am	↓ 7:06 pm			
Frankfort (KY)	↑ 7:39 am	↓ 7:14 pm	Olympia (WA)	↑ 7:17 am	↓ 6:41 pm			

Website

Results		Messages			
	StateName	Sunrisetime	Sunsettime	DateandTime	Daylength
1	Adak (AK)	08:56:00.0000000	20:11:00.0000000	06 Oct 2022 12 38 48 PM	11.2
2	Albany (NY)	06:57:00.0000000	18:27:00.0000000	06 Oct 2022 12 38 48 PM	11.5
3	Albuquerque (NM)	07:05:00.0000000	18:43:00.0000000	06 Oct 2022 12 38 48 PM	11.6
4	Ames (IA)	07:17:00.0000000	18:47:00.0000000	06 Oct 2022 12 38 48 PM	11.5
5	Anchorage (AK)	08:19:00.0000000	19:14:00.0000000	06 Oct 2022 12 38 48 PM	10.9
6	Annapolis (MD)	07:06:00.0000000	18:40:00.0000000	06 Oct 2022 12 38 48 PM	11.6
7	Atlanta (GA)	07:35:00.0000000	19:15:00.0000000	06 Oct 2022 12 38 48 PM	11.7
8	Augusta (ME)	06:42:00.0000000	18:10:00.0000000	06 Oct 2022 12 38 48 PM	11.5
9	Austin (TX)	07:27:00.0000000	19:10:00.0000000	06 Oct 2022 12 38 48 PM	11.7
10	Baltimore (MD)	07:07:00.0000000	18:41:00.0000000	06 Oct 2022 12 38 48 PM	11.6
11	Baton Rouge (LA)	07:01:00.0000000	18:43:00.0000000	06 Oct 2022 12 38 48 PM	11.7
12	Billings (MT)	07:18:00.0000000	18:44:00.0000000	06 Oct 2022 12 38 48 PM	11.4
13	Bismarck (ND)	07:48:00.0000000	19:12:00.0000000	06 Oct 2022 12 38 48 PM	11.4
14	Boise (ID)	07:48:00.0000000	19:16:00.0000000	06 Oct 2022 12 38 48 PM	11.5
15	Boston (MA)	06:46:00.0000000	18:17:00.0000000	06 Oct 2022 12 38 48 PM	11.5
16	Carson City (NV)	07:00:00.0000000	18:33:00.0000000	06 Oct 2022 12 38 48 PM	11.6
17	Charleston (WV)	07:26:00.0000000	19:01:00.0000000	06 Oct 2022 12 38 48 PM	11.6

SQL Database

Sunrise and Sunset



Atlanta (GA)

Daylength
11.70

Sunrise
7:35:00 AM

Sunset
7:35:00 AM

DateandTime

- ☐ 03 Oct 2022 05:30:00 PM
- ☐ 04 Oct 2022 05:30:00 AM
- ☐ 05 Oct 2022 05:30:00 AM
- ☐ 06 Oct 2022 10:41:00 AM

StateName, DateandTime

- ☐ Adak (AK)
- ☐ Albany (NY)
- ☐ Albuquerque (NM)
- ☐ Ames (IA)
- ☐ Anchorage (AK)
- ☐ Annapolis (MD)
- ☒ Atlanta (GA)
- ☐ Augusta (ME)
- ☐ Austin (TX)
- ☐ Baltimore (MD)
- ☐ Baton Rouge (LA)
- ☐ Billings (MT)
- ☐ Bismarck (ND)
- ☐ Boise (ID)
- ☐ Boston (MA)
- ☐ Carson City (NV)
- ☐ Charleston (WV)
- ☐ Chicago (IL)
- ☐ Columbia (MO)

Powe BI Dashboard

Sunriseanset

By Date ▾ ↑

▼ Today

Yashwant Sai Kishore ...

Daylength

The daylength in Anchorage

11:11

Yashwant Sai Kishore ...

Daylength

The daylength in Adak (AK) is

11:11

Yashwant Sai Kishore ...

Daylength

The daylength in Adak (AK) is

11:09

Daylength

YS

Yashwant Sai Kishore Kandregula

To Yashwant Sai Kishore Kandregula

Sun 09-10-2022 11:11

↩ Reply

↩ Reply All

→ Forward

...

The daylength in Anchorage (AK) is going to be 10.6

The Projected Sunrise : 8:27 am
The Projected Sunset : 7:05 pm

Link to Power BI Dashboard:
<https://app.powerbi.com/groups/me/reports/7c50dba9-ccbe-46b9-8b3b-a901bab566a/ReportSection>

From Power Automate Desktop
Do not Reply to this mail

Outlook Alerts

Thank You

