



أكاديمية مسك
MISK ACADEMY



UDACITY

Frist project: Explore Weather Trends

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My GitHub: <https://github.com/Ahmmed44/Exploring-Weather-Trends>

1- First extract data from the database

- Download the table `global_data` :

The screenshot shows a web browser window with the URL `classroom.udacity.com/nanodegrees/nd002-connect/parts/bd6e033d-c59e-4309-86bf-9af7688b38b/modules/361dc569-a42c-4ef2-aa43-873e1e54...`. The page title is "Accessing Data With SQL". The main content area shows a SQL query editor with the following code:

```
1 SELECT *
2 FROM global_data
3
4
5
6
```

Below the editor, a green "Success!" message is displayed, followed by a blue "EVALUATE" button. The output section shows "266 results" and a "Download CSV" link. The output table has two columns: "year" and "avg_temp". The first two rows are visible:

year	avg_temp
1750	8.72
1751	7.98

The right sidebar contains a list of projects: "Your First Project .1", "Project Instructions .2", "Accessing Data With SQL .3", and "Moving Averages .4". The "Accessing Data With SQL .3" project is currently selected and marked with a green checkmark. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 3:21 AM on 9/27/2020.

- then download table city data and specific the city Riyadh :

Accessing Data With SQL

- city_data - This contains the average temperatures for each city by year (°C).
- global_data - This contains the average global temperatures by year (°C).

Input

```

1 SELECT*
2 FROM City_data
3 WHERE city Like 'Riyadh'
4
5
6

```

Success! [EVALUATE](#)

Output 171 results [Download CSV](#)

year	city	country	avg_temp
1843	Riyadh	Saudi Arabia	24.74

- then open the two files in excel:

results (6) - Excel

year	city	country	avg_temp
1843	Riyadh	Saudi Arabia	24.74
1844	Riyadh	Saudi Arabia	15.45
1845	Riyadh	Saudi Arabia	20.82
1846	Riyadh	Saudi Arabia	
1847	Riyadh	Saudi Arabia	
1848	Riyadh	Saudi Arabia	24.56
1849	Riyadh	Saudi Arabia	24.8
1850	Riyadh	Saudi Arabia	24.34
1851	Riyadh	Saudi Arabia	25.03
1852	Riyadh	Saudi Arabia	24.85
1853	Riyadh	Saudi Arabia	24.93
1854	Riyadh	Saudi Arabia	24.72
1855	Riyadh	Saudi Arabia	24.92
1856	Riyadh	Saudi Arabia	24.57
1857	Riyadh	Saudi Arabia	24.26
1858	Riyadh	Saudi Arabia	25.01
1859	Riyadh	Saudi Arabia	24.95
1860	Riyadh	Saudi Arabia	24.94
1861	Riyadh	Saudi Arabia	24.13
1862	Riyadh	Saudi Arabia	23.77
1863	Riyadh	Saudi Arabia	24.28
1864	Riyadh	Saudi Arabia	25.03

global_data - Excel

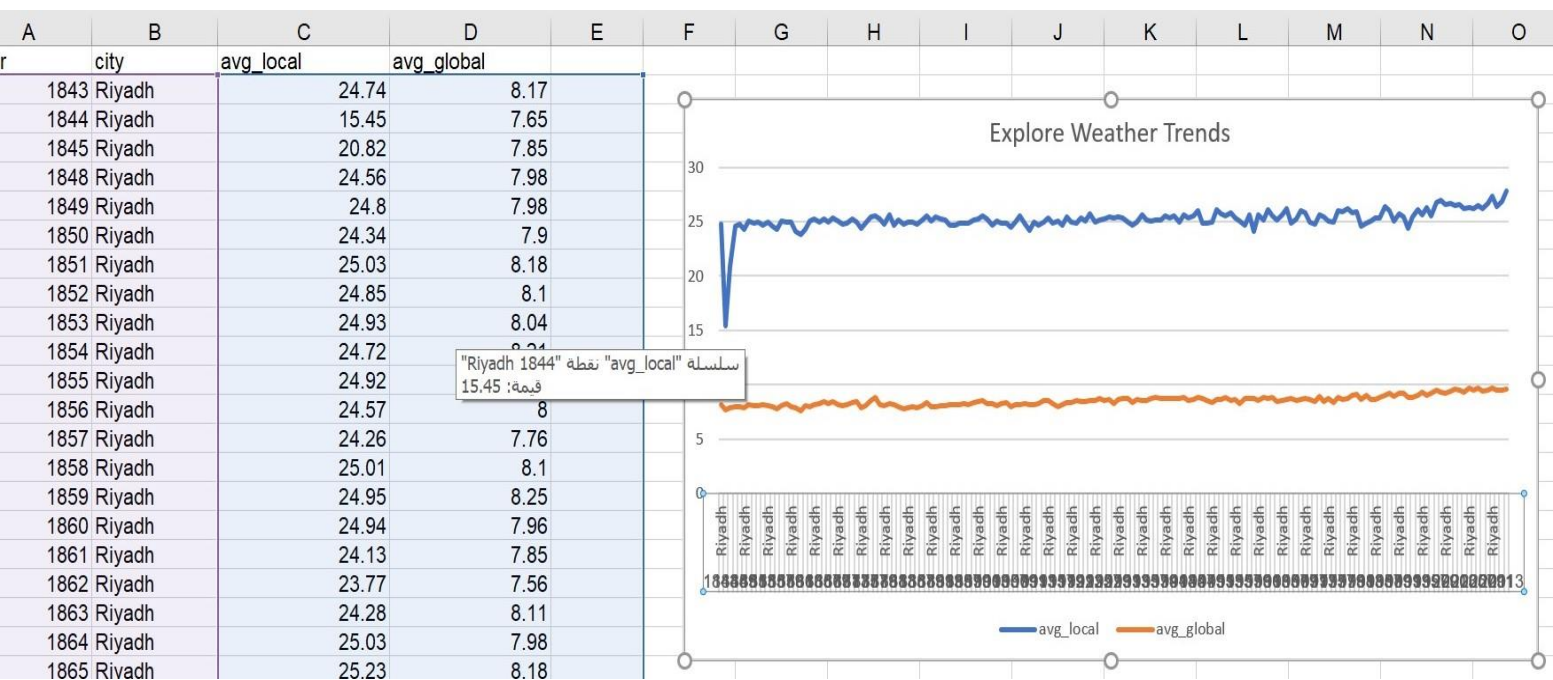
year	avg_temp
1750	8.72
1751	7.98
1752	5.78
1753	8.39
1754	8.47
1755	8.36
1756	8.85
1757	9.02
1758	6.74
1759	7.99
1760	7.19

2- here I do manipulate data

- the table global_data choice starts years 1843 end 2013 because need match with years table city_data .
- and I have missing features for the table city_data for the years 1846 and 1847 then I delete.
- and delete the column country because not useful for this project .

year	city	avg_local	avg_global
1843	Riyadh	24.74	8.17
1844	Riyadh	15.45	7.65
1845	Riyadh	20.82	7.85
1848	Riyadh	24.56	7.98
1849	Riyadh	24.8	7.98
1850	Riyadh	24.34	7.9
1851	Riyadh	25.03	8.18
1852	Riyadh	24.85	8.1
1853	Riyadh	24.93	8.04
1854	Riyadh	24.72	8.21
1855	Riyadh	24.92	8.11
1856	Riyadh	24.57	8
1857	Riyadh	24.26	7.76
1858	Riyadh	25.01	8.1
1859	Riyadh	24.95	8.25
1860	Riyadh	24.94	7.96
1861	Riyadh	24.13	7.85
1862	Riyadh	23.77	7.56
1863	Riyadh	24.28	8.11
1864	Riyadh	25.03	7.98
1865	Riyadh	25.23	8.18

3- Data visualization



4- Observations

- when we see the visualization avg_local for the year 1844 down for 15 and the other years between 20 and 27 and this is very hotter. had not difference between consistent over time.
- when we see the valuation avg_globe this is very cooler between 7 and 9.61 and look like getting hotter for the Coming years .