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-- Group Project : Climate Data Analysis
-- Author: Group 2
-- Analysis: Correlation Matrix for Numeric data : for USA
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-- Here we are fetching data from Climate fact table and we took avg of all numeric
field based on the locations. We will find correlation between them separately in
Excel sheet using om the outcome of the following query.
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```sql
select stationid,avg(avg_temp_c) as avg_temp,avg(min_temp_c) as
min_temp,avg(max_temp_c) as max_temp,avg(precipitation_mm) as
avg_precip,avg(snow_depth_mm) as avg_snow_depth,avg(avg_wind_dir_deg) as
avg_wind_dir,avg(avg_wind_speed_kmh) as avg_wind_speed,avg(peak_wind_gust_kmh) as
avg_peak_wind,avg(avg_sea_level_pres_hpa) as avg_sea_level,avg(sunshine_total_min) as
avg_sunshine
from `data-225-group-project.climate_dwh.climate_fact` clmfact
group by clmfact.stationid;
```

	A	B	C	D	E	F	G	H	I	J	K
		avg_temp	*min_temp*	*max_temp*	*avg_precip*	*g_snow_dep*	*avg_wind_dir*	*avg_wind_speed*	*vg_peak_win*	*avg_sea_level*	*avg_sunshine*
1	**avg_temp**	1									
2	**min_temp**	0.97649392	1								
3	**max_temp**	0.9727215	0.90196478	1							
4	**avg_precip**	0.06873829	0.19989599	-0.0706931	1						
5	**avg_snow_depth**	-0.6475623	-0.6007535	-0.6628123	0.06400471	1					
6	**avg_wind_dir**	-0.1404996	-0.1158458	-0.1517552	-0.2538377	-0.1614595	1				
7	**avg_wind_speed**	0.0263262	0.05567507	-0.0050572	-0.3229501	-0.2272496	0.8619558	1			
8	**avg_peak_wind**	0.03085367	0.03722437	0.01988755	-0.2432718	-0.2437244	0.7135208	0.722359045	1		
9	**avg_sea_level**	0.11704629	0.09135407	0.14497986	-0.3367264	-0.3017063	0.74391853	0.863193688	0.69804806	1	
10	**avg_sunshine**	0.2452015	0.18788646	0.29425113	-0.4429241	-0.2672673	0.33990645	0.359123202	0.29792308	0.348396166	1