

```
(https://databricks.com)
from datetime import date
from dateutil.relativedelta import relativedelta

days_in_year=365
date_list=[]

for day in range(days_in_year):
    date_list.append(date.today() + relativedelta(days=-day))

import requests

cities=['Mumbai','Delhi','Kolkata','London','Chennai','Bangalore','Kochi','Gandhinagar','Amaravati','Itanagar','Shimla']

%python
raw_data_list=[]
city_data={}
for day in date_list:
    for city in cities:
        url=f"http://api.weatherapi.com/v1/history.json?key=f274a0add27347cc8fd161013232605&q={city}&dt={day}"
        response = requests.get(url)

        city_info={}
        raw_data=response.json()
        for key, value in dict.items(raw_data['location']):
            if key not in ['localtime_epoch','localtime']:
                #print(f"{key} : {value}")
                city_info[key]=value

        city_data[raw_data['location']['name']]=city_info
        raw_data_list.append(raw_data)

ConnectTimeout: HTTPConnectionPool(host='api.weatherapi.com', port=80): Max retries exceeded with url: /v1/history.json?key=f274a0add27347cc8fd161013232605&q=Mumbai&dt=2023-05-20 (Caused by ConnectTimeoutError(, 'Connection to api.weatherapi.com timed out. (connect timeout=None)'))

raw_data_df=spark.read.json(sc.parallelize(raw_data_list))
display(raw_data_df)
```

Table		
	forecast	location
	<div>► {"forecastday": [{"astro": {"moon_illumination": "44", "moon_phase": "First Quarter", "moonrise": "12:22 PM", "moonset": "12:47 AM", "sunrise": "06:01 AM", "sunset": "07:11 PM"}, "date": "2023-05-27", "date_epoch": 1685145600, "day": {"avghumidity": 67, "avgtemp_c": 30, "avgtemp_f": 85.9, "avgvis_km": 10, "avgvis_miles": 6, "condition": {"code": 1063, "icon": "///cdn.weatherapi.com/weather/64x64/day/176.png", "text": "Patchy rain possible"}, "maxtemp_c": 32.5, "maxtemp_f": 90.5, "maxwind_kph": 20.9, "maxwind_mph": 13, "mintemp_c": 28.5, "mintemp_f": 83.3, "totalprecip_in": 0.01, "totalprecip_mm": 0.2, "uv": 7}, "hour": [{"chance_of_rain": 0, "chance_of_snow": 0, "cloud": 44, "condition": {"code": 1003, "icon": "///cdn.weatherapi.com/weather/64x64/night/116.png", "text": "Partly cloudy"}, "dewpoint_c": 22.6, "dewpoint_f": 72.7, "feelslike_c": 32.5, "feelslike_f": 90.5, "gust_kph": 23.8, "gust_mph": 14.8, "heatindex_c": 32.5, "heatindex_f": 90.5, "humidity": 68, "is_day": 0, "precip_in": 0, "precip_mm": 0, "pressure_in": 29.85, "pressure_mb": 1011, "temp_c": 29, "temp_f": 84.2, "time": "2023-05-27 00:00", "time_epoch": 1685125800, "uv": 1, "vis_km": 10, "vis_miles": 6, "will_it_rain": 0, "will_it_snow": 0, "wind_degree": 245, "wind_dir": "WSW", "wind_kph": 17.6, "wind_mph": 11, "windchill_c": 29, "windchill_f": 84.2}, {"chance_of_rain": 0, "chance_of_snow": 0, "cloud": 44, "condition": {"code": 1003, "icon": "///cdn.weatherapi.com/weather/64x64/night/116.png", "text": "Partly cloudy"}, "dewpoint_c": 22.4, "dewpoint_f": 72.3, "feelslike_c": 32.3, "feelslike_f": 90.1, "gust_kph": 22.3, "gust_mph": 13.9, "heatindex_c": 32.3, "heatindex_f": 90.1, "humidity": 68, "is_day": 0, "precip_in": 0, "precip_mm": 0, "pressure_in": 29.83, "pressure_mb": 1010, "temp_c": 28.9, "temp_f": 84, "time": "2023-05-27 01:00", "time_epoch": 1685129400, "uv": 1, "vis_km": 10, "vis_miles": 6, "will_it_rain": 0, "will_it_snow": 0, "wind_degree": 247, "wind_dir": "WSW", "wind_kph": 16.6, "wind_mph": 10.3, "windchill_c": 28.9, "windchill_f": 84}, {"chance_of_rain": 0, "chance_of_snow": 0, "cloud": 48, "condition": {"code": 1003, "icon": "///cdn.weatherapi.com/weather/64x64/night/116.png", "text": "Partly cloudy"}, "dewpoint_c": 22.3, "dewpoint_f": 72.1, "feelslike_c": 32.1, "feelslike_f": 89.8, "gust_kph": 19.8, "gust_mph": 12.3, "heatindex_c": 32.1, "heatindex_f": 89.8, "humidity": 68, "is_day": 0, "precip_in": 0, "precip_mm": 0, "pressure_in": 29.82, "pressure_mb": 1010, "temp_c": 28.8, "temp_f": 83.8, "time": "2023-05-27 02:00", "time_epoch": 1685133000, "uv": 1, "vis_km": 10, "vis_miles": 6, "will_it_rain": 0, "will_it_snow": 0, "wind_degree": 251, "wind_dir": "WSW", "wind_kph": 17.6, "wind_mph": 11, "windchill_c": 28.9, "windchill_f": 84}], "time": "2023-05-27 00:00", "time_epoch": 1685125800, "uv": 1, "vis_km": 10, "vis_miles": 6, "will_it_rain": 0, "will_it_snow": 0, "wind_degree": 245, "wind_dir": "WSW", "wind_kph": 17.6, "wind_mph": 11, "windchill_c": 29, "windchill_f": 84.2}], [{"country": "India", "lat": "Mumbai", "region": "Maharashtra"}]}</div>	
77 rows		

```

root
|-- forecast: struct (nullable = true)
|   |-- forecastday: array (nullable = true)
|   |   |-- element: struct (containsNull = true)
|   |   |   |-- astro: struct (nullable = true)
|   |   |   |   |-- moon_illumination: string (nullable = true)
|   |   |   |   |-- moon_phase: string (nullable = true)
|   |   |   |   |-- moonrise: string (nullable = true)
|   |   |   |   |-- moonset: string (nullable = true)
|   |   |   |   |-- sunrise: string (nullable = true)
|   |   |   |   |-- sunset: string (nullable = true)
|   |   |   |-- date: string (nullable = true)
|   |   |   |-- date_epoch: long (nullable = true)
|   |   |   |-- day: struct (nullable = true)
|   |   |   |   |-- avghumidity: double (nullable = true)
|   |   |   |   |-- avgtemp_c: double (nullable = true)
|   |   |   |   |-- avgtemp_f: double (nullable = true)
|   |   |   |   |-- avgvis_km: double (nullable = true)
|   |   |   |   |-- avgvis_miles: double (nullable = true)
|   |   |   |   |-- condition: struct (nullable = true)
|   |   |   |   |   |-- code: long (nullable = true)

```

	forecast	location
	<p>► {"forecastday": [{"astro": {"moon_illumination": "44", "moon_phase": "First Quarter", "moonrise": "12:22 PM", "moonset": "12:47 AM", "sunrise": "06:01 AM", "sunset": "07:11 PM"}, "date": "2023-05-27", "date_epoch": 1685145600, "day": {"avghumidity": 67, "avgtemp_c": 30, "avgtemp_f": 85.9, "avgvis_km": 10, "avgvis_miles": 6, "condition": {"code": 1063, "icon": "//cdn.weatherapi.com/weather/64x64/day/176.png", "text": "Patchy rain possible"}, "maxtemp_c": 32.5, "maxtemp_f": 90.5, "maxwind_kph": 20.9, "maxwind_mph": 13, "mintemp_c": 28.5, "mintemp_f": 83.3, "totalprecip_in": 0.01, "totalprecip_mm": 0.2, "uv": 7}, "hour": [{"chance_of_rain": 0, "chance_of_snow": 0, "cloud": 44, "condition": {"code": 1003, "icon": "//cdn.weatherapi.com/weather/64x64/night/116.png", "text": "Partly cloudy"}, "dewpoint_c": 22.6, "dewpoint_f": 72.7, "feelslike_c": 32.5, "feelslike_f": 90.5, "gust_kph": 23.8, "gust_mph": 14.8, "heatindex_c": 32.5, "heatindex_f": 90.5, "humidity": 68, "is_day": 0, "precip_in": 0, "precip_mm": 0, "pressure_in": 29.85, "pressure_mb": 1011, "temp_c": 29, "temp_f": 84.2, "time": "2023-05-27 00:00", "time_epoch": 1685125800, "uv": 1, "vis_km": 10, "vis_miles": 6, "will_it_rain": 0, "will_it_snow": 0, "wind_degree": 245, "wind_dir": "WSW", "wind_kph": 17.6, "wind_mph": 11, "windchill_c": 29, "windchill_f": 84.2}, {"chance_of_rain": 0, "chance_of_snow": 0, "cloud": 44, "condition": {"code": 1003, "icon": "//cdn.weatherapi.com/weather/64x64/night/116.png", "text": "Partly cloudy"}, "dewpoint_c": 22.4, "dewpoint_f": 72.3, "feelslike_c": 32.3, "feelslike_f": 90.1, "gust_kph": 22.3, "gust_mph": 13.9, "heatindex_c": 32.3, "heatindex_f": 90.1, "humidity": 68, "is_day": 0, "precip_in": 0, "precip_mm": 0, "pressure_in": 29.83, "pressure_mb": 1010, "temp_c": 28.9, "temp_f": 84, "time": "2023-05-27 01:00", "time_epoch": 1685129400, "uv": 1, "vis_km": 10, "vis_miles": 6, "will_it_rain": 0, "will_it_snow": 0, "wind_degree": 247, "wind_dir": "WSW", "wind_kph": 16.6, "wind_mph": 10.3, "windchill_c": 28.9, "windchill_f": 84}, {"chance_of_rain": 0, "chance_of_snow": 0, "cloud": 48, "condition": {"code": 1003, "icon": "//cdn.weatherapi.com/weather/64x64/night/116.png", "text": "Partly cloudy"}, "dewpoint_c": 22.3, "dewpoint_f": 72.1, "feelslike_c": 32.1, "feelslike_f": 89.8, "gust_kph": 19.8, "gust_mph": 12.3, "heatindex_c": 32.1, "heatindex_f": 89.8, "humidity": 68, "is_day": 0, "precip_in": 0, "precip_mm": 0, "pressure_in": 29.82, "pressure_mb": 1010, "temp_c": 28.8, "temp_f": 83.8, "time": "2023-05-27 02:00", "time_epoch": 1685133000, "uv": 1, "vis_km": 10, "vis_miles": 6, "will_it_rain": 0, "will_it_snow": 0, "wind_degree": 251,</p>	<p>► {"country": "India", "lat": "Mumbai", "region": "Maharashtra", "time_zone": "Asia/Kolkata", "lon": "72.8333", "city": "Mumbai", "state": "Maharashtra", "zip": "400001", "name": "Mumbai", "timezone_offset": "+05:30", "continent": "Asia", "country_code": "IN", "country_name": "India", "city_name": "Mumbai", "state_name": "Maharashtra", "zip_code": "400001", "latitude": 19.0728, "longitude": 72.8333, "elevation": 10, "population": 12442373, "area_sqkm": 435, "area_sqmi": 168, "currency": "Indian Rupee", "currency_code": "₹", "currency_symbol": "₹", "language": "Hindi", "language_code": "hi", "phone_prefix": "91", "tld": ".in", "iso_alpha2": "IN", "iso_alpha3": "IND", "iso_numeric": 356}</p>

```

root
|-- name: string (nullable = true)
|-- country: string (nullable = true)
|-- region: string (nullable = true)
|-- date: string (nullable = true)
|-- forecast: struct (nullable = true)
|   |-- avghumidity: double (nullable = true)
|   |-- avgtemp_c: double (nullable = true)
|   |-- avgtemp_f: double (nullable = true)
|   |-- avgvis_km: double (nullable = true)

```

```
| |-- avgvis_miles: double (nullable = true)
| |-- condition: struct (nullable = true)
| | |-- code: long (nullable = true)
| | |-- icon: string (nullable = true)
| | |-- text: string (nullable = true)
| |-- maxtemp_c: double (nullable = true)
| |-- maxtemp_f: double (nullable = true)
| |-- maxwind_kph: double (nullable = true)
| |-- maxwind_mph: double (nullable = true)
| |-- mintemp_c: double (nullable = true)
```

```
df_daily_data=df_avg.rdd.map(lambda x: \
```

```
(x.name,x.country,x.region,x.date,x.forecast.avghumidity,x.forecast.avgtemp_c,x.forecast.avgvis_km,x.forecast.condition["t
ext"],x.forecast.totalprecip_in,x.forecast.maxtemp_c,x.forecast.mintemp_c)) \
```

```
.toDF(["name","country","region","date","avghumidity","avgtemp_c","avgvis_km","condition","totalprecip_in","maxtemp_c","mi
ntemp_c"])
```

```
df_daily_data.printSchema()
```

```
df_daily_data.show()
```

```
root
```

```
|-- name: string (nullable = true)
|-- country: string (nullable = true)
|-- region: string (nullable = true)
|-- date: string (nullable = true)
|-- avghumidity: double (nullable = true)
|-- avgtemp_c: double (nullable = true)
|-- avgvis_km: double (nullable = true)
|-- condition: string (nullable = true)
|-- totalprecip_in: double (nullable = true)
|-- maxtemp_c: double (nullable = true)
|-- mintemp_c: double (nullable = true)
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+
|      name|      country|      region|      date|avghumidity|avgtemp_c|avgvis_km|      condition|totalpre
cip_in|maxtemp_c|mintemp_c|
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+
|      Mumbai|      India|      Maharashtra|2023-05-27|      67.0|      30.0|      10.0|Patchy rain possible|
0.01|      32.5|      28.5|
```

```
df_daily_data.count()
```

```
Out[13]: 77
```

```
df2=raw_data_df.rdd.map(lambda x: \
```

```
(x.location["name"],x.location["country"],x.location["region"],x.forecast["forecastday"][0]
["date"],x.forecast["forecastday"][0]["hour"]))) \
```

```
.toDF(["name","country","region","date","hourly"])
```

```
df2.printSchema()
```

```
df2.show()
```

```
root
```

```
|-- name: string (nullable = true)
|-- country: string (nullable = true)
|-- region: string (nullable = true)
|-- date: string (nullable = true)
|-- hourly: array (nullable = true)
| |-- element: struct (containsNull = true)
| | |-- chance_of_rain: long (nullable = true)
| | |-- chance_of_snow: long (nullable = true)
| | |-- cloud: long (nullable = true)
| | |-- condition: struct (nullable = true)
| | | |-- code: long (nullable = true)
| | | |-- icon: string (nullable = true)
| | | |-- text: string (nullable = true)
| | |-- dewpoint_c: double (nullable = true)
| | |-- dewpoint_f: double (nullable = true)
| | |-- feelslike_c: double (nullable = true)
```

```
| | |-- feelslike_f: double (nullable = true)
| | |-- gust_kph: double (nullable = true)
| | |-- gust_mph: double (nullable = true)
| | |-- heatindex_c: double (nullable = true)
```

```
from pyspark.sql.functions import explode
df_hourly=df2.select(df2.name,df2.country,df2.region,df2.date,explode(df2.hourly))
```

```
df_hourly.count()
df_hourly.printSchema()
```

```
root
 |-- name: string (nullable = true)
 |-- country: string (nullable = true)
 |-- region: string (nullable = true)
 |-- date: string (nullable = true)
 |-- col: struct (nullable = true)
 |   |-- chance_of_rain: long (nullable = true)
 |   |-- chance_of_snow: long (nullable = true)
 |   |-- cloud: long (nullable = true)
 |   |-- condition: struct (nullable = true)
 |   |   |-- code: long (nullable = true)
 |   |   |-- icon: string (nullable = true)
 |   |   |-- text: string (nullable = true)
 |   |-- dewpoint_c: double (nullable = true)
 |   |-- dewpoint_f: double (nullable = true)
 |   |-- feelslike_c: double (nullable = true)
 |   |-- feelslike_f: double (nullable = true)
 |   |-- gust_kph: double (nullable = true)
 |   |-- gust_mph: double (nullable = true)
 |   |-- heatindex_c: double (nullable = true)
 |   |-- heatindex_f: double (nullable = true)
```

```
df_hourly.show()
```

```
+-----+-----+-----+-----+-----+
| name|country|  region|   date|           col|
+-----+-----+-----+-----+-----+
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 44, {1003,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 44, {1003,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 48, {1003,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 49, {1003,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 53, {1003,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 56, {1063,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 66, {1006,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 77, {1006,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 63, {1006,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 50, {1003,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 36, {1003,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 71, {1063,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 10, {1000,...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 4, {1000, ...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 1, {1000, ...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 0, {1000, ...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 0, {1000, ...|
|Mumbai|  India|Maharashtra|2023-05-27|[0, 0, 0, {1000, ...|
```

```
%sql
```

```
create database de_casestudy
```

Error in SQL statement: NamespaceAlreadyExistsException: [SCHEMA_ALREADY_EXISTS] Cannot create schema `de_casestudy` because it already exists.
Choose a different name, drop the existing schema, or add the IF NOT EXISTS clause to tolerate pre-existing schema.

```
df_daily_data.write.saveAsTable('de_casestudy.daily_avg_data')
```

AnalysisException: [TABLE_OR_VIEW_ALREADY_EXISTS] Cannot create table or view `de_casestudy`.`daily_avg_data` because it already exists.
Choose a different name, drop or replace the existing object, add the IF NOT EXISTS clause to tolerate pre-existing objects, or add the OR REFRESH clause to refresh the existing streaming table.

```
%sql
use database de_casestudy
```

OK

```
%sql
show tables
```

Table			
	database ▲	tableName ▲	isTemporary ▲
1	de_casestudy	daily_avg_data	false
1 row			

```
%sql
select * from daily_avg_data
```

Table								
	name ▲	country ▲	region ▲	date ▲	avghumidity ▲	avgtemp_c ▲	avgvis_km ▲	cond
1	Mumbai	India	Maharashtra	2023-05-21	70	29.8	10	Partly
2	Delhi	Canada	Ontario	2023-05-21	72	14.9	10	Sunn
3	Kolkata	India	West Bengal	2023-05-21	62	33.3	10	Partly
4	London	United Kingdom	City of London, Greater London	2023-05-21	73	13.5	10	Over
5	Chennai	India	Tamil Nadu	2023-05-21	74	31.7	9.8	Partly
6	Bangalore	India	Karnataka	2023-05-21	60	27.2	9.6	Patch
7	Kochi	India	Kerala	2023-05-21	77	28.8	9.3	Mod
133 rows								

```
%sql
show tables
```

Table			
	database ▲	tableName ▲	isTemporary ▲
1	de_casestudy	daily_avg_data	false
1 row			

OK

```
df_hourly.write.saveAsTable('de_casestudy.temp_hourly_data')
```

```
%sql
--name,country,region,date,col.chance_of_rain as chance_of_rain,col.chance_of_snow as chance_of_snow,
col.condition["text"] as condition_description
select name,country,region,date,col.chance_of_rain as chance_of_rain,col.chance_of_snow as chance_of_snow,
col.condition["text"] as condition_description , col.feelslike_c as feelslike_c, col.heatindex_c as heatindex_c,
col.temp_c as temp_c ,col.time as measurement_time from hourly_data

Error in SQL statement: AnalysisException: [TABLE_OR_VIEW_NOT_FOUND] The table or view `hourly_data` cannot be found. V
erify the spelling and correctness of the schema and catalog.
If you did not qualify the name with a schema, verify the current_schema() output, or qualify the name with the correct
schema and catalog.
To tolerate the error on drop use DROP VIEW IF EXISTS or DROP TABLE IF EXISTS.; line 2 pos 276;
'Project ['name, 'country, 'region, 'date, 'col.chance_of_rain AS chance_of_rain#4446, 'col.chance_of_snow AS chance_of
_snow#4447, 'col.condition[text] AS condition_description#4448, 'col.feelslike_c AS feelslike_c#4449, 'col.heatindex_c
AS heatindex_c#4450, 'col.temp_c AS temp_c#4451, 'col.time AS measurement_time#4452]
+- 'UnresolvedRelation [hourly_data], [], false
```

```
%sql
create table daily_hourly_data as
select name,country,region,date,col.chance_of_rain as chance_of_rain,col.chance_of_snow as chance_of_snow,
col.condition["text"] as condition_description , col.feelslike_c as feelslike_c, col.heatindex_c as heatindex_c,
col.temp_c as temp_c ,col.time as measurement_time from temp_hourly_data
```

Query returned no results

```
%sql
select * from daily_hourly_data
```

Table

	name	country	region	date	chance_of_rain	chance_of_snow	condition_des
1	Kolkata	India	West Bengal	2023-05-22	0	0	Clear
2	Kolkata	India	West Bengal	2023-05-22	0	0	Clear
3	Kolkata	India	West Bengal	2023-05-22	0	0	Clear
4	Kolkata	India	West Bengal	2023-05-22	0	0	Clear
5	Kolkata	India	West Bengal	2023-05-22	0	0	Clear
6	Kolkata	India	West Bengal	2023-05-22	0	0	Sunny
7	Kolkata	India	West Bengal	2023-05-22	0	0	Sunny

1,848 rows

```
daily_avg_weather_data=spark.read.table('daily_avg_data')

daily_hourly_data=spark.read.table('daily_hourly_data')

daily_avg_weather_data.write.option("header",True)\
.csv("/tmp/spark_output/daily_avg_weather_data")

daily_hourly_data.write.option("header",True)\
.csv("/tmp/spark_output/daily_hourly_data")

spark.read.csv("/tmp/spark_output/daily_avg_weather_data",header=True).show()
```

name	country	region	date	avghumidity	avgtemp_c	avgvis_km	condition	totalprecip_in	maxtemp_c	mintemp_c
Mumbai	India	Maharashtra	2023-05-18	67.0	30.6	10.0	Sunny	0.0	34.5	28.4
Delhi	Canada	Ontario	2023-05-18	60.0	10.3	10.0	Sunny	0.0	19.5	2.6
Kolkata	India	West Bengal	2023-05-18	66.0	33.0	9.9	Patchy light rain...	0.23	41.9	28.9
London	United Kingdom	City of London, G...	2023-05-18	75.0	14.1	10.0	Light rain shower	0.06	18.2	10.6
Chennai	India	Tamil Nadu	2023-05-18	69.0	32.2	10.0	Sunny	0.0	37.4	29.3
Bangalore	India	Karnataka	2023-05-18	48.0	29.5	10.0	Patchy rain possible	0.02	35.9	25.4
Kochi	India	Kerala	2023-05-18	80.0	29.2	9.8	Thundery outbreak...	0.02	33.9	25.8
Gandhinagar	India	Gujarat	2023-05-18	39.0	34.8	10.0	Sunny			

```
import pandas as pd

df = pd.read_csv('/tmp/spark_output/daily_avg_weather_data.csv')

FileNotFoundError: [Errno 2] No such file or directory: '/tmp/spark_output/daily_avg_weather_data.csv'
```

```
%sql
select name,date,condition_description,count(condition_description) as weather_status from daily_hourly_data group by
1,2,3
```

Table Visualization 1					
	name ▲	date ▲	condition_description ▲	weather_status ▲	
1	Kolkata	2023-05-22	Sunny	14	
2	Bangalore	2023-05-22	Patchy light drizzle	2	
3	Delhi	2023-05-21	Clear	6	
4	Mumbai	2023-05-21	Sunny	12	
5	Delhi	2023-05-21	Overcast	1	
6	Amaravati	2023-05-22	Sunny	7	
7	Amaravati	2023-05-21	Clear	10	
306 rows					

Table Visualization 1			
	name ▲	number_of_records ▲	
1	Bangalore	12	
2	Kochi	12	
3	Chennai	12	
4	Shimla	12	
5	London	12	
6	Mumbai	13	
7	Kolkata	12	
11 rows			