

`analise_python.py` - Terminal print

```
• (myenv) joaoabarras@ORION-B1-CARVALHO orionb1 % /Users/joaoabarras/Desktop/orionb1/myenv/bin/python /Users/joaoabarras/Desktop/orionb1/myenv/spq/analise_python.py
/Users/joaoabarras/Desktop/orionb1/myenv/lib/python3.9/site-packages/urllib3/_init_.py:35: NotOpenSSLWarning: urllib3 v2 only supports OpenSSL 1.1.1+, currently the 'ssl' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
  warnings.warn(
Downloading: 100% | 1/1 [00:00<00:00, 2.76rows/s]
Question 1: total_chamados
0 1756
Downloading: 100% | 1/1 [00:00<00:00, 1.62rows/s]
Question 2: tipo quantidade
0 Estacionamento irregular 366
Downloading: 100% | 3/3 [00:00<00:00, 4.90rows/s]
Question 3: nome quantidade
0 Campo Grande 113
1 Tijuca 89
2 Barra da Tijuca 59
Downloading: 100% | 1/1 [00:00<00:00, 1.63rows/s]
Question 4: subprefeitura quantidade
0 Zona Norte 510
Downloading: 100% | 73/73 [00:00<00:00, 212.50rows/s]
Question 5: id_chamado
0 18517061
1 18517239
2 18517064
3 18517078
4 18517043
..
68 18516401
69 18517403
70 18517821
71 18518366
72 18516414

[73 rows x 1 columns]
Downloading: 100% | 1/1 [00:00<00:00, 1.64rows/s]
Question 6: total_chamados
0 42830
Downloading: 100% | 1214/1214 [00:00<00:00, 1546.47rows/s]
Question 7: id_chamado id_origem ocorrencia data_inicio data_fim id_bairro id_territorialidade ... dentro_prazo situacao tipo_situacao justificativa status reclamacoes da
ta_particao
0 18329312 11 2023-02-18 19:31:06 2023-02-18 21:39:54 128 4 ... No prazo Encerrado Atendido None 0 2023-02-01
1 18330954 11 2023-02-19 19:11:16 2023-02-28 10:01:42 90 3 ... Fora do prazo Encerrado Não atendido None 0 2023-02-01
2 18331103 11 2023-02-19 20:57:31 2023-02-28 10:01:00 90 3 ... Fora do prazo Encerrado Não atendido None 0 2023-02-01
3 18331281 17 2023-02-20 00:36:22 2023-02-28 09:59:38 139 5 ... Fora do prazo Encerrado Não atendido None 0 2023-02-01
4 17684038 11 2022-09-10 18:54:32 2022-09-10 22:27:45 151 5 ... No prazo Encerrado Atendido None 0 2022-09-01
...
1209 17678562 11 2022-09-08 23:30:30 2022-09-16 21:49:29 35 ...
1210 17685272 11 2022-09-11 17:44:16 2022-09-19 10:01:26 65 3 ...
1211 17664666 1 2022-09-04 22:29:12 2022-09-13 13:34:46 76 3 ...
1212 18078946 17 2022-12-31 11:52:48 2022-12-31 14:22:50 141 5 ...
1213 18077728 11 2022-12-30 16:35:19 2023-01-10 09:35:14 14 1 ...

[1214 rows x 32 columns]
Downloading: 100% | 3/3 [00:00<00:00, 8.51rows/s]
Question 8: evento total_chamados
0 Carnaval 241
1 Reveillon 139
2 Rock in Rio 834
Downloading: 100% | 1/1 [00:00<00:00, 3.07rows/s]
Question 9: evento media_diaria
0 Rock in Rio 83.4
Downloading: 100% | 3/3 [00:00<00:00, 7.08rows/s]
Question 10: evento media_diaria_evento media_diaria_total
0 Carnaval 60.250000 58.671233
1 Rock in Rio 83.400000 58.671233
2 Reveillon 46.333333 58.671233
```

`analise_api.py` - Terminal print

```
• (myenv) joaoabarras@ORION-B1-CARVALHO orionb1 % /Users/joaoabarras/Desktop/orionb1/myenv/bin/python /Users/joaoabarras/Desktop/orionb1/myenv/spq/analise_api.py
/Users/joaoabarras/Desktop/orionb1/myenv/lib/python3.9/site-packages/urllib3/_init_.py:35: NotOpenSSLWarning: urllib3 v2 only supports OpenSSL 1.1.1+, currently the 'ssl' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
  warnings.warn(
Total holidays in 2024: 14
Month with the most holidays: 02
Number of weekday holidays: 9
Average temperatures per month: {'01': 27.10483870967742, '02': 27.72241379318345, '03': 26.891935483870967, '04': 25.65, '05': 25.583870967741934, '06': 23.236666666666668, '07': 21.674193548387098, '08': 21.799999999999997}
Predominant weather per month: {'01': 63, '02': 51, '03': 51, '04': 3, '05': 51, '06': 1, '07': 3, '08': 2}
Weather on holidays: {'2024-01-01': {'temp_avg': 24.85, 'weather_code': 51}, '2024-02-12': {'temp_avg': 30.8, 'weather_code': 1}, '2024-02-13': {'temp_avg': 31.15, 'weather_code': 51}, '2024-03-29': {'temp_avg': 25.708000000000003, 'weather_code': 61}, '2024-03-31': {'temp_avg': 24.7, 'weather_code': 53}, '2024-04-21': {'temp_avg': 23.5, 'weather_code': 2}, '2024-05-01': {'temp_avg': 28.35, 'weather_code': 0}, '2024-05-30': {'temp_avg': 20.9, 'weather_code': 51}, '2024-07-09': {'temp_avg': 21.95, 'weather_code': 53}}
Non-enjoyable holidays: ['2024-01-01', '2024-02-13', '2024-03-31', '2024-05-30', '2024-07-09']
Most enjoyable holiday: 2024-02-12
```

`preview_data.py` - Terminal print

```
● (myenv) joaobarros@JUNIOR-CARVALHO orionBI % /Users/joaobarros/Desktop/orionBI/myenv/bin/python /Users/joaobarros/Desktop/orionBI/myenv/spq/preview_data.py
/Users/joaobarros/Desktop/orionBI/myenv/lib/python3.9/site-packages/urllib3/_init_.py:35: NotOpenSSLWarning: urllib3 v2 only supports OpenSSL 1.1.1+, currently the 'ssl' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
  warnings.warn(
2024-08-22 12:57:22.321
Warning: to view this Streamlit app on a browser, run it with the following
command:

streamlit run /Users/joaobarros/Desktop/orionBI/myenv/spq/preview_data.py [ARGUMENTS]
Total holidays in 2024: 14
Month with the most holidays: 02
Number of weekday holidays: 9
Average temperatures per month: {'01': 27.10483870967742, '02': 27.72241379318345, '03': 26.891935483870967, '04': 25.65, '05': 25.583870967741934, '06': 23.236666666666668, '07': 21.674193548387098, '08': 21.799999999999997}
Predominant weather per month: {'01': 63, '02': 51, '03': 51, '04': 3, '05': 51, '06': 1, '07': 3, '08': 2}
Weather on holidays: {'2024-01-01': {'temp_avg': 24.85, 'weather_code': 51}, '2024-02-12': {'temp_avg': 30.8, 'weather_code': 1}, '2024-02-13': {'temp_avg': 31.15, 'weather_code': 51}, '2024-03-29': {'temp_avg': 25.780000000000003, 'weather_code': 61}, '2024-03-31': {'temp_avg': 24.7, 'weather_code': 53}, '2024-04-21': {'temp_avg': 23.5, 'weather_code': 2}, '2024-05-01': {'temp_avg': 28.35, 'weather_code': 0}, '2024-05-30': {'temp_avg': 20.9, 'weather_code': 51}, '2024-07-09': {'temp_avg': 21.95, 'weather_code': 53}}
Non-enjoyable holidays: {'2024-01-01', '2024-02-13', '2024-03-31', '2024-05-30', '2024-07-09'}
Most enjoyable holiday: 2024-02-12
Downloading: 100% | 1/1 [00:00<00:00, 1.65rows/s]
Downloading: 100% | 1/1 [00:00<00:00, 2.29rows/s]
Downloading: 100% | 3/3 [00:00<00:00, 10.02rows/s]
Downloading: 100% | 1/1 [00:00<00:00, 2.42rows/s]
Downloading: 100% | 73/73 [00:00<00:00, 199.33rows/s]
Downloading: 100% | 1/1 [00:00<00:00, 1.62rows/s]
Downloading: 100% | 1214/1214 [00:00<00:00, 1493.99rows/s]
Downloading: 100% | 3/3 [00:00<00:00, 7.72rows/s]
Downloading: 100% | 1/1 [00:00<00:00, 3.05rows/s]
Downloading: 100% | 3/3 [00:00<00:00, 4.81rows/s]
```

``preview_data.py`` – Sreamlit view

- Streamlit run preview_data.py

Data Analysis Dashboard

Calls Analysis

Total Calls by Date

total_chamadas	
0	1,756

Most Frequent Call Type

tipo	quantidade
0 Estacionamento irregular	366

Top 3 Neighborhoods by Calls

nome	quantidade
0 Campo Grande	113
1 Tijuca	89
2 Barra da Tijuca	59

Top Subprefecture by Calls

subprefeitura	quantidade
0 Zona Norte	510

Calls Without Neighborhood or Subprefecture

id_chamado
0 18517061
1 18517239
2 18517864
3 18517078
4 18517043
5 18517041
6 18517023
7 18517753
8 18516989
9 18518181

Total Calls by Subtype and Date Range

total_chamados	
0	42,830

Calls During Specific Events

id_chamado	id_origem_recorrencia	data_inicio	data_fim	id_bairro	id_territorial
0 18329332	11	2023-02-18 19:11:06	2023-02-18 21:39:54	128	4
1 18330954	11	2023-02-19 19:11:16	2023-02-28 10:01:42	90	3

Average Temperatures per Month

```
{
  "01" : 27.19463878967742
  "02" : 27.72241379318345
  "03" : 26.891935483878967
  "04" : 25.65
  "05" : 25.583878967741834
  "06" : 23.386000000000003
  "07" : 21.674193548387898
  "08" : 21.799999999999997
}
```

Predominant Weather per Month

```
{
  "01" : 63
  "02" : 51
  "03" : 51
  "04" : 3
  "05" : 51
  "06" : 1
  "07" : 3
  "08" : 2
}
```

Weather on Holidays

```
{
  "2024-01-01" : {
    "temp_avg" : 24.65
    "weather_code" : 51
  }
  "2024-02-12" : {
    "temp_avg" : 38.8
    "weather_code" : 1
  }
  "2024-02-13" : {
    "temp_avg" : 31.15
    "weather_code" : 51
  }
  "2024-03-29" : {
    "temp_avg" : 25.786000000000003
    "weather_code" : 61
  }
  "2024-03-31" : {
    "temp_avg" : 24.7
    "weather_code" : 53
  }
  "2024-04-01" : {
    "temp_avg" : 23.5
    "weather_code" : 2
  }
  "2024-05-01" : {
    "temp_avg" : 28.35
    "weather_code" : 8
  }
  "2024-05-30" : {

```

Calls During Specific Events

id_chamado	id_origem_ocorrencia	data_inicio	data_fim	id_bairro	id_territorial
0	18329312	11	2023-02-18 19:31:06	2023-02-18 21:39:54	128 4
1	18330954	11	2023-02-19 19:11:16	2023-02-28 18:01:42	90 3
2	18331103	11	2023-02-19 20:57:31	2023-02-28 19:01:00	90 3
3	18331281	17	2023-02-20 00:36:22	2023-02-28 09:59:38	139 5
4	17684038	11	2022-09-10 18:54:32	2022-09-10 22:27:45	151 5
5	17661898	11	2022-09-02 22:40:02	2022-09-09 09:12:54	26 2
6	17661309	1	2022-09-02 20:15:49	2022-09-09 08:54:46	3 1
7	17688711	1	2022-09-02 09:16:53	2022-09-09 08:24:28	119 3
8	17646183	11	2022-09-04 11:09:04	2022-09-13 11:06:48	24 2
9	17685186	11	2022-09-11 16:36:55	2022-09-19 09:57:37	149 5

Total Calls for Each Event

	evento	total_chamados
0	Carnaval	241
1	Reveillon	139
2	Rock in Rio	834

Daily Average Calls for Each Event

	evento	media_diaria
0	Rock in Rio	83.4

Daily Average Calls During Events and Total Period

evento	media_diaria_evento	media_diaria_total
0	Carnaval	60.25 58.6712
1	Rock in Rio	83.4 58.6712
2	Reveillon	46.3333 58.6712

Holidays Analysis

Month with Most Holidays

02

Number of Weekday Holidays

3

Average Temperatures per Month

```
{
  "61": 37.10483878967743
  "62": 27.72241379318345
  "63": 26.891935483878967
  "64": 25.65
  "65": 25.583878967741934
```

Weather on Holidays

```
{
  "2024-01-01": {
    "temp_avg": 24.85,
    "weather_code": 51
  },
  "2024-02-12": {
    "temp_avg": 30.8,
    "weather_code": 1
  },
  "2024-02-13": {
    "temp_avg": 31.15,
    "weather_code": 51
  },
  "2024-03-29": {
    "temp_avg": 25.786000000000003,
    "weather_code": 61
  },
  "2024-03-31": {
    "temp_avg": 24.7,
    "weather_code": 53
  },
  "2024-04-11": {
    "temp_avg": 23.5,
    "weather_code": 2
  },
  "2024-05-01": {
    "temp_avg": 28.35,
    "weather_code": 0
  },
  "2024-05-06": {
    "temp_avg": 20.9,
    "weather_code": 51
  },
  "2024-07-09": {
    "temp_avg": 21.55,
    "weather_code": 53
  }
}
```

Non-Enjoyable Holidays

```
[
  0: "2024-01-01"
  1: "2024-02-13"
  2: "2024-03-29"
  3: "2024-03-31"
  4: "2024-05-01"
  5: "2024-07-09"
]
```

Most Enjoyable Holiday

2024-02-12